

**DECEMBER 5, 2023**

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**WEB WIZARDS**

**DIGITAL  
DOCUMENTATION**

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GROUP2C

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# OVERVIEW

## BRIEF DESCRIPTION OF PROJECT

Web Wizards are developing an event management system, Eventra, to be delivered to the Lead Client (Dr. Babik) and Stakeholder (Professor Lough). The name Eventra was chosen due to its simplicity and mirrors the idea of the system's functionality as an event management service.

The main feature of Eventra allows for the creation of events by event organizers and participant registration. Eventra serves as a way to bring together participants and events into a single, centralized system.

## PROJECT GOALS

- 1** Finalize our functional application that will enable users to access, create and modify information pertaining to JMU scholarly events on a database.
- 2** Refine our system that ensures data protection through encryption techniques.
- 3** Design a system that will provide scalability and reliability by residing in an Amazon EC2 Instance.
- 4** Finalize our application that is user-friendly, intuitive, and mobile-friendly.

Eventra will address the above goals by acting as a system that allows event organizers to easily create and manage events as well as allowing participants find and register for events. Participants are able to receive communications via email from event organizers and can also use Eventra to find additional events to register for.

User interface issues from past sprints were resolved through user testing, where we learned that the main issue with the current interface was readability. Our UX team communicated this issue with our front-end developer and successfully adjusted features like the font and button sizes.

Our overall goal is to unite all users into one system, as the core of Eventra is to act as a solution for easier interaction between participants and events.

# OVERVIEW

## TECHNICAL GOALS

- Create a web solution with ASP.NET core that is hosted on Amazon Web Services (AWS) and database functionality through SQL Server
- Collect, store, and interact with data to aid the creation of Event data/analytics
- Display a mobile-friendly and visually pleasing user interface and user experience for all users of the system, with an emphasis on accessibility

## USER INTERFACE SOLUTIONS

Our goal for the interface solutions was to develop a user-friendly and aesthetically pleasing design that's accessible and intuitive to use. Eventra is designed to be "powered by JMU" and uses the university's branding, providing JMU the opportunity for recognition by those who use the system. During Sprint 3, Web Wizards prioritized developing the interface for an "Organizer" role by initiating clientele meetings and conducting usability testing. An example of our updated development includes re-imagining the organizer to be essentially a pseudo-admin or "event admin"; we wanted to make sure they had a design that incorporated all the functionalities that the admin could do. We also enhanced the look of the tables to display more organized lists.

After communicating with our clients we concluded that our documentation didn't incorporate all of the essential interactions that were needed. During Sprint 3, we further enhanced our documentation to be consistent across all our diagrams to ensure that they all convey the same message and ultimately showcase why and how Eventra solves the user's needs.

# OVERVIEW

## OBJECT-ORIENTED NATURE

Web Wizards has developed an Event Management System (Eventra), that utilizes object-oriented programming principles to conduct a variety of user tasks. A combination of Microsoft's Visual Studio (2022) and Microsoft's SQL Server has been utilized by developers to write the code from the ground up within this system. These programs help create objects to communicate with each other using ASP.NET Core Razor Pages. The product has been carefully designed to emphasize the confidentiality, integrity, and availability of all data within the system. We have focused on using efficient programming practices to better leverage the system's ability update in the future.

Eventra had three major components: front-end, back-end, and a cloud database. All front-end has been developed using HTML5, JavaScript, and CSS3, while the back-end has been developed using C#. C# allows for object-oriented creation of important data that structures how the data flows between pages and the database itself. All back-end data is seamlessly linked to the front-end, which shows pages that are visually appealing and easy to navigate by the user. All database connections are used by the back-end C# language and allows for the automation of information storage and access.

Object-orientation is what drives Eventra to a scalable, reliable, secure, and robust system.

# AMAZON WEB SERVICES (AWS)

Amazon Web Services offers a robust, secure, and reliable cloud server for the event management system to constantly run on. Web Wizards will utilize this service and place Eventra on an EC2 (Elastic Cloud-Compute) instance. Given that at any time around 250 users could use the system, this shows that AWS should be more than able to host the website. We are using a pay as you go model because event management has unpredictable load, given that our price estimates are based on one event a month and general support for event creation during the whole year.

<b>AWS Calculation</b>	<b>Cost:</b>	<b>Monthly Rate:</b>	<b>Annual Rate:</b>
C7a.medium		\$452.90	\$5,434.80
Solutions Architect Professional:			
Hourly Rate:	\$85.40		
7 hours Implementation			\$597.80
2 monthly maintenance		\$170.80	
Total Annual Cost:			\$8,082.20
Average Monthly AWS Cost:		\$673.52	

# CURRENT WORKING FEATURES:

## **USER CREATION & LOG IN**

Users are able to create accounts and log in using their created credentials.

## **EVENT CREATION & ROOM ALLOCATION**

Event organizers are able to create events and determine participant types (e.g., attendee, sub event host, judge, guest, volunteer). Organizers can also delete or edit the event. Organizers can also manually re-allocate rooms and choose rooms for events.

## **SUB EVENT CREATION**

Event organizers are able to create and manage concurrent sub events (speakers, presentations, workshops, panels, competitions). Organizers can also delete or edit sub events.

## **MONITOR EVENT SIGN UPS**

Event organizers are able view participant sign ups.

## **ACCESS AND ANALYZE PARTICIPANT LISTS**

Event organizers are able to view participant lists by types and other attributes as well as event schedules and attendance.

## **EVENT REGISTRATION**

Participants can register for events and fill out general contact information. They can also withdrawal from events.

## **TEAM REGISTRATION**

Users can join and create teams for events that allow it.

## **SUB EVENT REGISTRATION**

Participants can register for sub events and also withdrawal.

## **SEE SCHEDULE**

Participants can view the schedule for events.

## **SYSTEM ADMINISTRATION & MONITORING**

Administrators can monitor system and make sure it's running smoothly.

# USER RESEARCH

## *User Interviews*

### **Kate Propheeter, 54 - Loudoun County Event Participant**

Q. What event did you attend and what was the registration process like?

A. "The event hasn't happened yet but I registered for a Holiday Craft Fair at Heritage High School on December 9th. I had to fill out a form and then it took me to a payment portal. I was able to register on my own, the form was short so that was a positive."

Q. What challenges did you face?

A. "I received a discount code as an LCPS employee but on the form the discounted price wasn't an option so I had to pay a higher price."

### **Rachitha Tholasi, 24 - Microsoft Hackathon Participant**

Q. What event did you attend and what was the registration process like?

A. "Microsoft hosted a global hackathon with about 50,000 employee participants. They had us use 'Hackbox' to register for the event and participants have to request to join whatever project they are interested in. I didn't have any challenges when registering."

Q. If you had to plan this event again, what would you do differently?

A. "It was the first time I used the interface so I could've explored the different categories instead of individually clicking through all 900."



# USER RESEARCH

## *User Interviews*

### **Ella Wilkins, 20 - Hackathon Planner**

Q. What event did you plan and what was the registration process like?

A. "I planned a local hackathon for the state of Delaware. Pre-registration was set up as a Google Form, but for the actual registration you had to come in person to the two day hackathon."

Q. What challenges did you face?

A. "Finding a venue for this event was difficult, because people had to be comfortable sitting and being on their computers for a long period of time. We needed a proper amount of tables and access to a lot of outlets. Using the university's catering was frustrating because the options weren't dietary restriction friendly and were extremely expensive."

### **Megan Paje, 23 - University Organization Event Planner**

Q: What challenges did you run into when planning? During the event?

A: Poor communication from vendors in a timely manner; Staying within a budget set by someone unaware of traditional event costs

Q: If you had to plan this event again, what would you do differently?

A: Plan earlier and/or reach out to vendors earlier; talk in person with vendors instead of strictly through email

# PERSONA | ORGANIZER

DON  
COLLINS

Occupation: Event Planner

Age: 50

Status: Full-time

Location: Richmond, VA



## MOTIVATION

Don is a passionate event planner and dedicates his time to creating and managing all kinds of events ranging from business conferences to weddings. He has been through the ins and outs of organizing events and loves being the main person in charge.

## GOALS

- Better promotion of events to increase activity/registrants
- Notifications for newly registered participants

## FRUSTRATIONS

- Difficulty communicating with vendors in timely manner
- Not enough accessibility accommodations

Tech Savvy

Perfectionist

Ambitious

“I want to be able to virtually implement my events so that people of all ages and interests are able to easily find and register. I want a platform where all of the details and info my events are all in a clear and digestible space.”

- **“As an event organizer, I want the ability to create events and sub-events so that participants can register and attend these events.**
- **“As an organizer, I want a reliable system that is always accessible so I can view event information without having to wait if the system is down.”**

# PERSONA | PARTICIPANT

MIKE  
WEST

Occupation: University Student

Age: 21

Status: Full-time

Location: Charlotte, NC

## MOTIVATION

Mike is a CIS major with a Business Analytics minor. He is going to be participating in his university's hackathon and needs to register for it soon. He is constantly researching different events at his university, especially related to CIS.

## GOALS

- Efficient way to register for hackathon
- Notifications for upcoming events

## FRUSTRATIONS

- Limited event promotion
- No central platform to keep track of all events he's registered for



Dedicated

Organized

Passionate

“I want to register to my university's hackathon as quickly and easily and be able to get plenty of notification reminders.”

- **“As an event participant, I want to be able to view event details and register for upcoming events so I can attend them.”**
- **“As a user, I want an application that is easy to use and mobile-friendly so I can navigate through the application with ease and have no problems using the application on my smartphone.”**

# PERSONA | JUDGE

SHELLY  
GREEN

Occupation: Computer  
Software Engineer

Age: 31

Status: Full-time

Location: Seattle, WA

#### MOTIVATION

Shelly is a full-time computer software engineer registering for Microsoft's Hackathon as a judge. She has attended this annual event many times as a participant but is a judge this year for the first time.

#### GOALS

- Easily input scores into the system
- Communicate with the Organizer and Admin
- Post feedback
- Easily view the files submitted

#### FRUSTRATIONS

- Not being able to check in prior to arrival
- Not being able to easily open and view multiple file types within the system



Intelligent

Responsible

Introverted

"I want the interface to be easy to navigate when posting feedback and inputting scores. I want to be able to communicate with organizers and participants via the event management system"

- **"As a judge, I want to easily be able to view the file submissions of the contestants."**
- **"As a judge, I want an application that is easy to use and allows me to communicate with the Organizer and Admin with any questions."**

# PERSONA | ADMINISTRATOR

NICO  
LAZAR

Occupation: System  
Administrator

Age: 30

Status: Full-time

Location: San Diego, CA

## MOTIVATION

Nico works as a System Administrator and will be responsible for managing and creating the event IS for his company. He wants a flexible system that could be used for company-wide and company associated events.

## GOALS

- Monitoring user accounts and ensuring safety of user information
- Scalable and reliable system on AWS
- Seamless event creation process and interaction

## FRUSTRATIONS

- No current system to manage company events



Meticulous

Administrative

Analytical

“I want to develop and manage an event IS that can be used for company-wide and associated events.”

- **“As an administrator, I want a system that is scalable so that more users can use the application as it grows.”**
- **“As an administrator, I want to ensure that the information of all users is protected and secure so that JMU’s reputation in information security is maintained.”**

# USER NARRATIVE

**\*NOTE\*** Some images are cropped to better show system components

## CREATE AN ACCOUNT - PASSWORD PROTECTED

All users are able to easily create an account by navigating to the “Register | Log In” button on the right side of the nav bar. Users are defaulted to the Log In screen but can click on the bottom link that states “Register Here.” Users will be prompted to fill in basic personal information about themselves including their allergies and accommodations, which helps event organizers with planning. Finally, users click the “Create Account” button to fully register themselves within the system.

## LOG IN - PASSWORD PROTECTED

All users are prompted to Log In with their registered account by entering their username and password, which includes password protection.

**Please Enter Your Information**  
Eventra promises to never share your data with anyone

- First Name -

- Last Name -

- Username -

- Password -

- Email -

- Phone -

- Relevant Food Allergies -

- Extra Accommodations -

Populate Clear Create Cancel

**Please Log In Below:**

Username

Password

**Login**

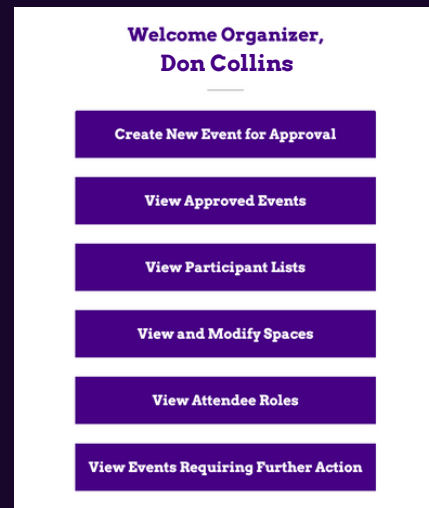
Don't have an account?  
**Register here**

# USER NARRATIVE

**\*NOTE\*** Some images are cropped to better show system components

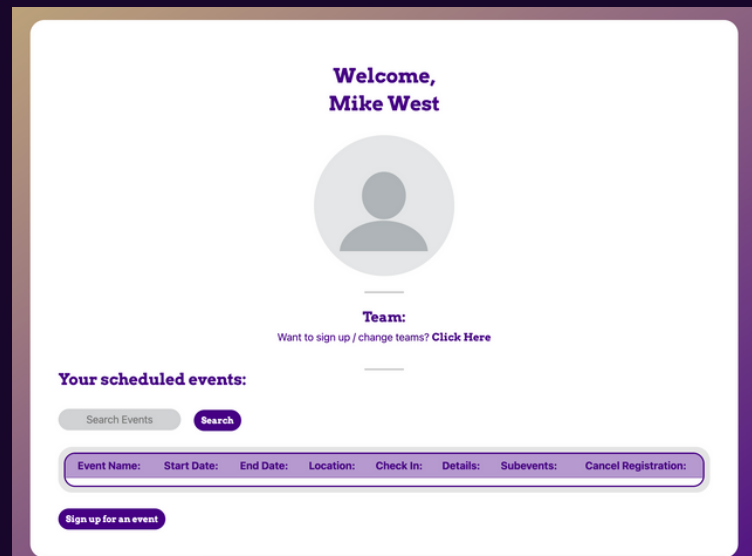
## ORGANIZER HOME

Upon log in, organizers are welcomed and can select different actions to create and edit events.



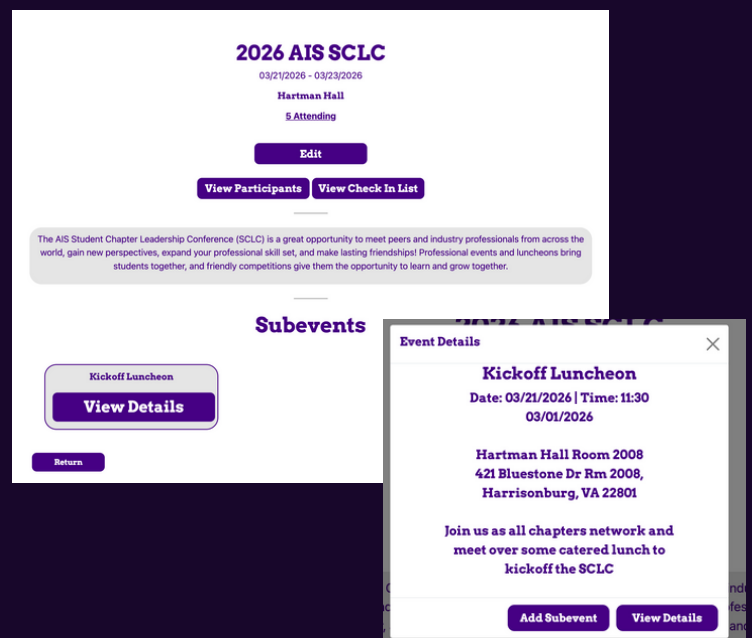
## PARTICIPANT HOME

After a participant logs in, they're greeted by the system and have an empty scheduled events table. They also can join a team from this page. Participants can easily sign up for events and also cancel their registration from this home page.



## EVENT PAGE

Event pages include a description of the event and necessary date information. Participants are able to view sub event details.

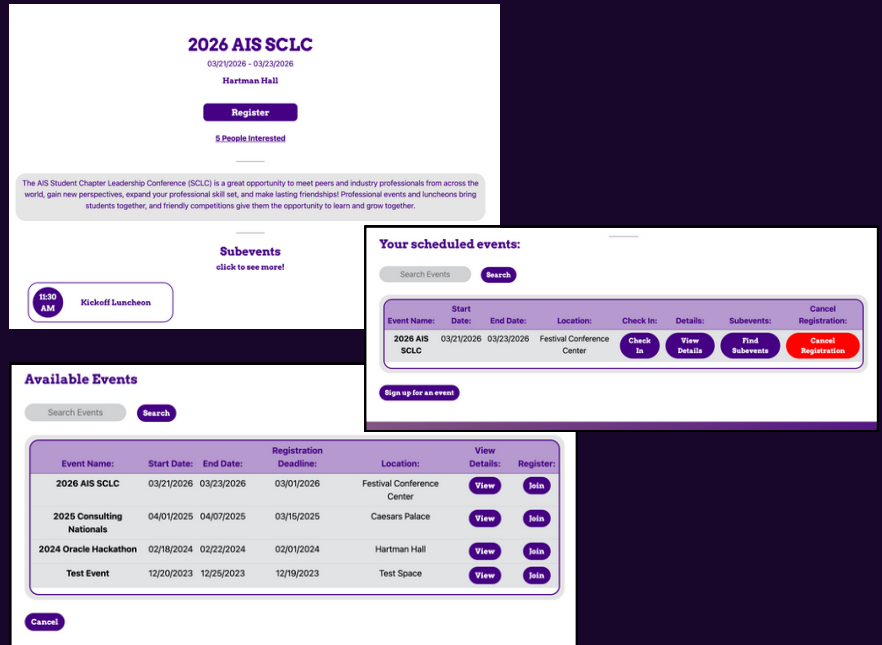


# USER NARRATIVE

**\*NOTE\*** Some images are cropped to better show system components

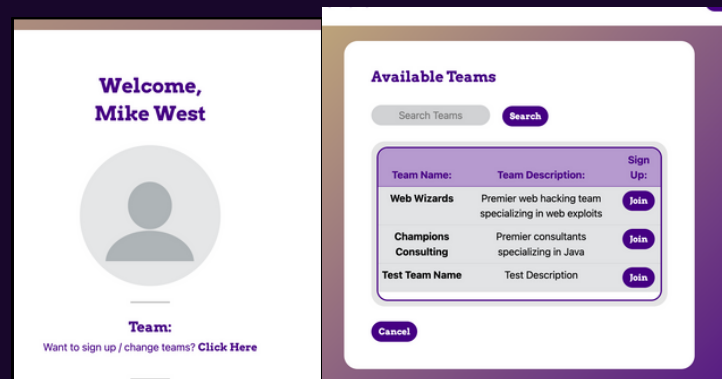
## REGISTER FOR EVENT

Participants are able to register for an event and view an event description, event dates, registration deadline, and location. They are asked before signing up if they're sure and can proceed to officially register. Users can also cancel their attendance.



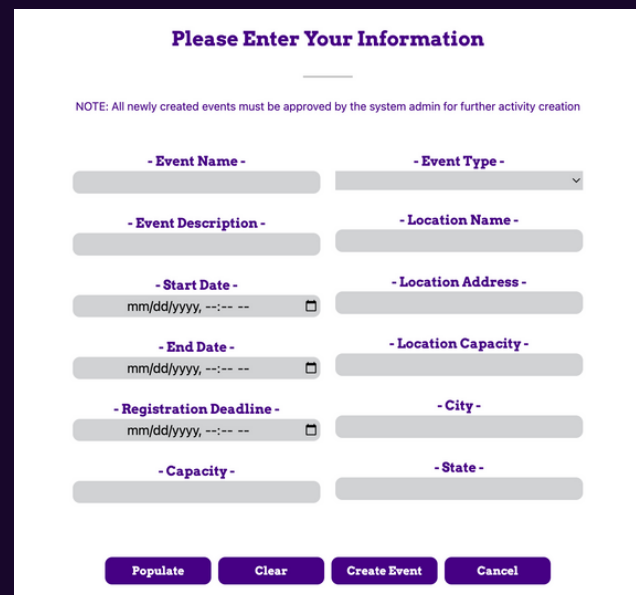
## JOIN TEAM

After registering for an event, participants are able to join or create a team if the event organizer has permitted it. They are able to name the team if they create one.



## CREATE EVENT

Event organizers are able to create events and enter details such as the event name, description, start and end dates, registration deadline, capacity, and location. Organizers can also edit this information once the event is created.





# USER NARRATIVE

**\*NOTE\*** Some images are cropped to better show system components

**All Event Spaces** [Show Space Assignments](#) [Create New Space](#)

Search Events [Search](#)

### Event Main Spaces

Name:	Address:	Capacity:	Edit:
Atlantic Union Bank Center	645 University Blvd, Harrisonburg, VA 22801	8500	<a href="#">Edit</a>
Caesars Palace	3570 S Las Vegas Blvd, Paradise, NV 89109	8000	<a href="#">Edit</a>
Festival Conference Center	1301 Carrier Dr, Harrisonburg, VA 22807	3000	<a href="#">Edit</a>
Hartman Hall	421 Bluestone Dr, Harrisonburg, VA 22801	5000	<a href="#">Edit</a>
Student Success Center	738 S Mason St, Harrisonburg, VA 22807	4000	<a href="#">Edit</a>
The Space Needle	400 Broad St, Seattle, WA 98109	500	<a href="#">Edit</a>

### Event Subspaces

Main Space:	Subspace Name:	Address:	Capacity:	Edit:
Atlantic Union Bank Center	Room 100	645 University Blvd Rm 100, Harrisonburg, VA 22801	4000	<a href="#">Edit</a>
Atlantic Union Bank Center	Room 115	645 University Blvd Rm 115, Harrisonburg, VA 22801	250	<a href="#">Edit</a>
Caesars Palace	Room 110	3570 S Las Vegas Blvd Rm 110, Paradise, NV 89109	1000	<a href="#">Edit</a>
Festival Conference Center	Room 2000	1301 Carrier Dr Rm 2000, Harrisonburg, VA 22807	1000	<a href="#">Edit</a>

## EVENT SPACE PAGE

Organizers are able to view information about event spaces to help them plan the appropriate space for their event.

[My Home](#) [Organizer Tools](#) [My](#)

### All Participant Types

Search Users [Search](#)

Participant Type:	Description:	Edit:
Presenter	Responsible for delivering content or presentations during an event, managing interactions with attendees.	<a href="#">Edit</a>
Judge	Responsible for evaluating and scoring participants or contestants in competitions or contests held during an event.	<a href="#">Edit</a>
Host	Hosts events and performs related duties.	<a href="#">Edit</a>


[Create New Participant Role](#) [Assign Participant Role](#) [View Role Assignments](#) [Return](#)

## PARTICIPANT TYPE PAGE / ATTENDEE ROLES


Organizers can view and edit participant types for their events. Depending on the type of event, organizers can customize these roles as appropriate.

# ILLUSTRATED USER STORYBORADS


## ORGANIZER



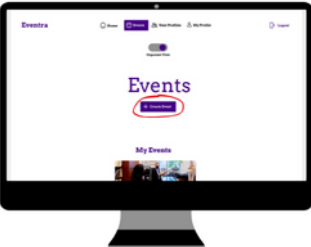
Don Collins is organizer for an event at a conference that is using Eventra




He needs to create an event for the conference



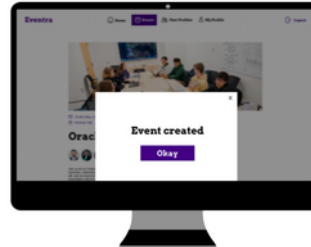
He will log into his account that gives him permission to create



He will go to the Events tab and click "Create Event"



He will put in all of the information regarding the event and then click "Create Event"



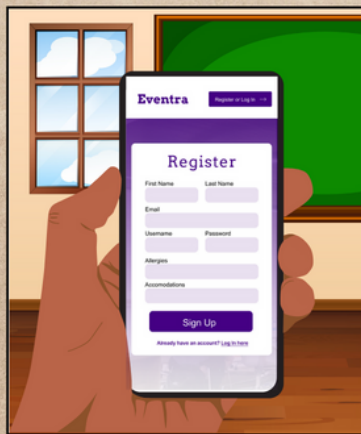
His event for the conference was created

# ILLUSTRATED USER STORYBOARDS

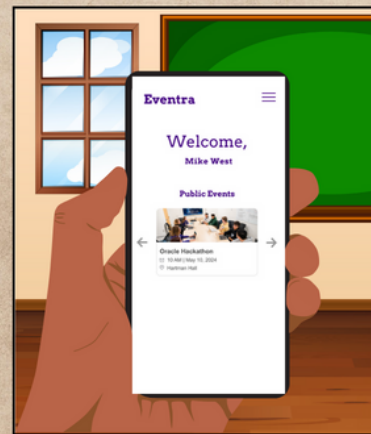
## PARTICIPANT



Mike West just heard about the newest event management app, Eventra, that his university uses. He wants to create an account.



Upon opening, Mike fills in his information to fully sign up as an Eventra user.



After registering, Mike's account is created and he can view events and sign up for them!

# VISUAL DESIGN

## Color Palette



## Typography

Aa Arvo

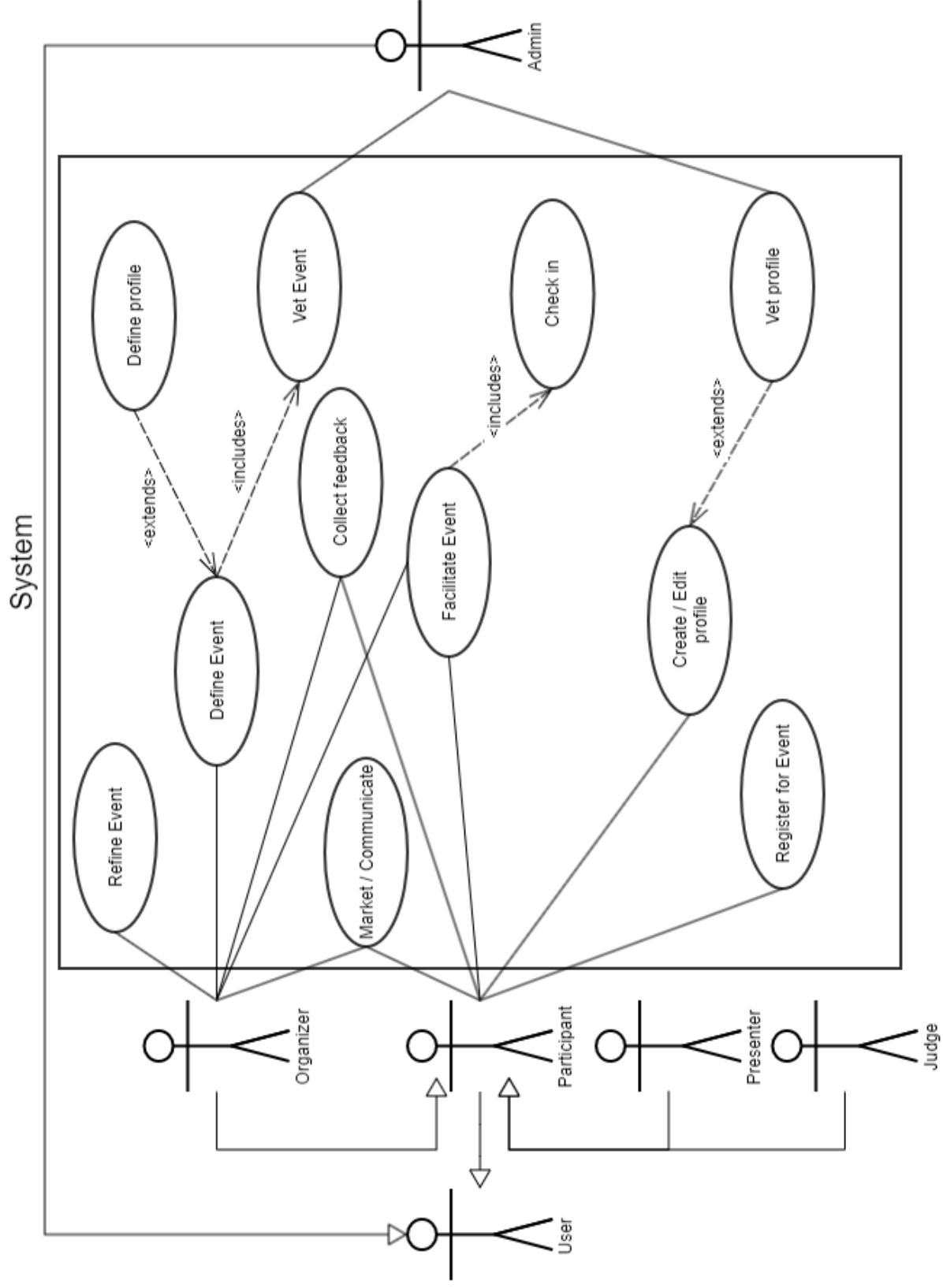
Aa Arial

# TRACEABILITY MATRIX

Participant Requirements	Progress	Organizer Requirements	Progress	Judge Requirements	Progress	Admin Requirements	Progress	System Requirements	Progress	Key
1. Register (enter their registration information, e.g., name, email and contact information, affiliation, team membership);		1. Create Events		1. Do everything that any participant can do but be assigned the judge role by the organizer		1. Do anything that other users can do		1. User-friendly, intuitive, and easy-to-use design UI design		Not Done
2. Register a team and create team affiliation; Multiple different teams		1.1. Determine participant types (e.g. attendees, subevent host, judge, guest, volunteer aid)		2. Perform the judge duties (View participant submissions and provide scoring and feedback)		2. Perform system administration and monitoring functions		2. Be mobile-friendly/responsive		In Progress
3. Link to 3rd party functionality to pay participation fee and/or use discount code (if applicable);		2. Determine agenda, schedule, and room allocation, registration fee						3. Be scalable (must support at least 250 simultaneous users)		Complete
4. Receive registration confirmation/e-ticket (e.g., with QR code);		3. Manage multiple concurrent subevents (speakers, presentations, workshops, panels, competitions, social functions)						4. Support various user roles		
5.1. Withdraw registration		4. Add, edit, or remove events, subevents, participants, rooms, and other resources						4.1. User authentication		
5.2. Request a refund		5. Issue codes for discounted registration						4.2. User authorization (including multi-factor authentication for all users)		
6. Check-in upon arrival (e.g., by scanning QR code or link/sign-in);		6. Conduct "smart room allocation" (auto-allocate rooms based on capacity and tech requirements)						5. Be secure (encryption for data protection)		
7. Print participant badge		6.1. "Manually override" (manually re-allocate rooms based on circumstances)						6. Be hosted on a cloud server (AWS preferred)		
8. Choose, sign up for participating in or attending subevents (e.g., workshops), RSVP social events;		7. Monitor sign-ups for events and manage waitlists								
9. See schedule and type of participation (attendance, speaker, panelist, host, contestant, etc.);		8. Access and analyze participant lists (by participant types and other attributes), event lists/schedules/attendance.								
10. RSVP social events; Receive updates by email										
11. Provide post-event feedback to organizers on the events and subevents										
12. Access / web link to logistics information items										

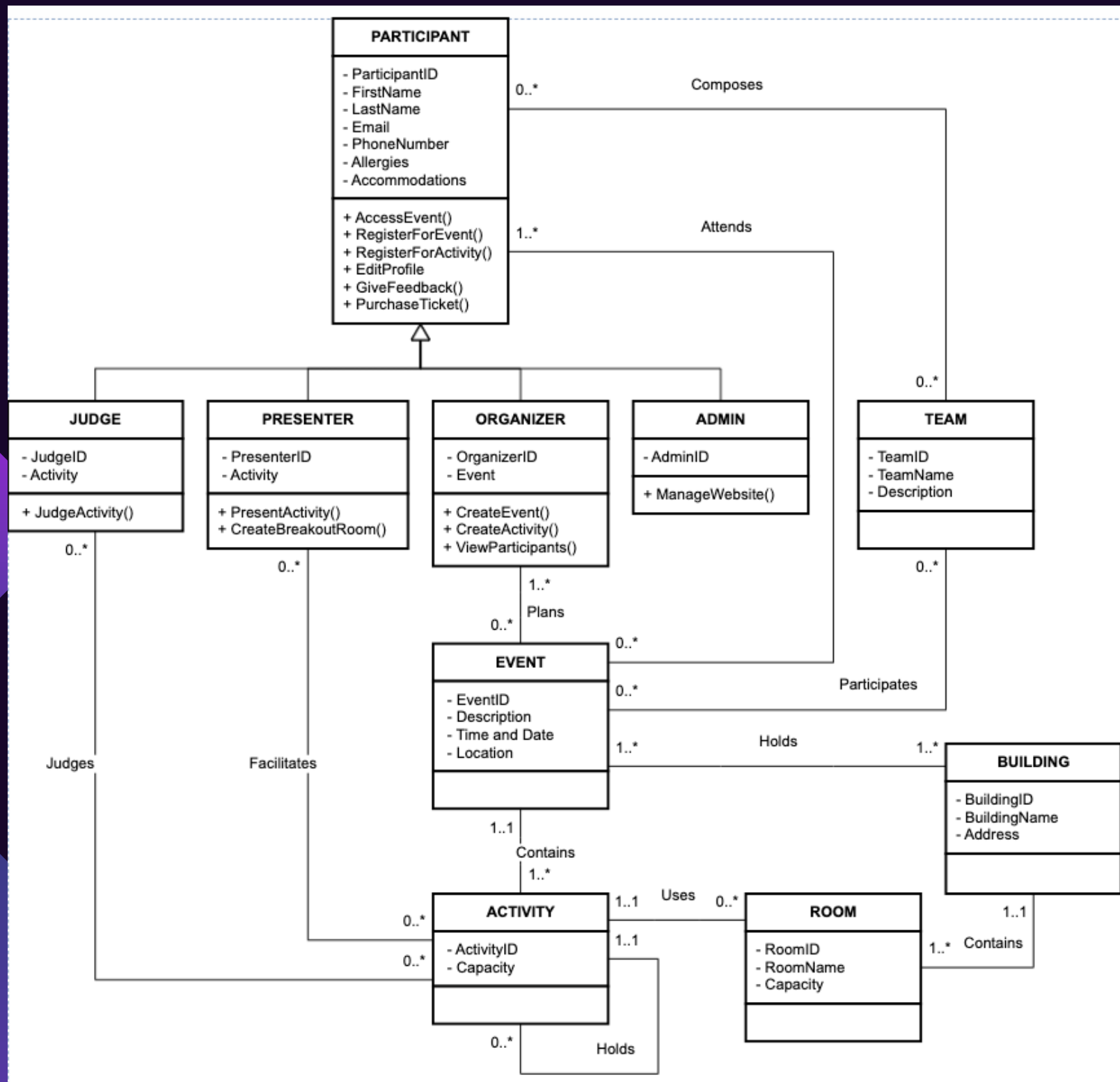
# UPDATED SYSTEM PLANNING & DOCUMENTATION

## UPDATED USE CASE DIAGRAM



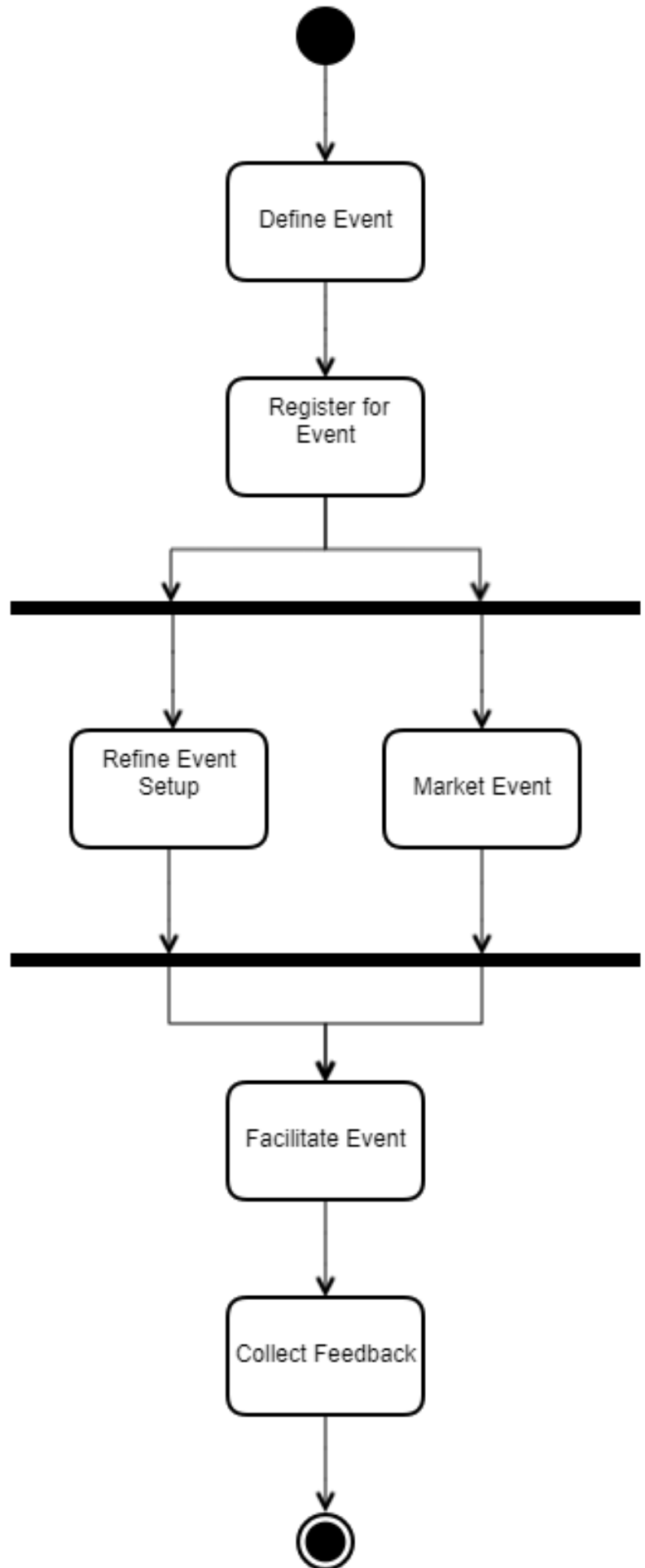
# UPDATED SYSTEM PLANNING & DOCUMENTATION

## UPDATED FUNCTIONAL CLASS DIAGRAM



# UPDATED SYSTEM PLANNING & DOCUMENTATION

UPDATED HIGH LEVEL ACTIVITY DIAGRAM







# GETTING STARTED INSTRUCTIONS:

## ACCESS LINK:

<http://eventmanagementsystem-dev.us-east-1.elasticbeanstalk.com/>

## LOGIN INFO FOR PARTICIPANT

- username: mwest
- password: password

## LOGIN INFO FOR ORGANIZER

- username: doncon
- password: password

## LOGIN INFO FOR ADMINISTRATOR

- username: admin
- password: password

# GOING FORWARD

**Add “smart room allocation”**

**Duo or other Two-Factor Authentication Compatability**

**Implement a payment system**

**Collect all Participant feedback of the event**

**Attaching files and other submissions for more Judge functionality**

# SCRIPTS

Speaker: Devin Vicchio

Approximately 1.8 million events are held in the United States every year. There are around 130,000 event planners and countless event management software options in a 7.43 billion dollar market. With so many different options and users, the need for a centralized and easy-to-use event management system becomes essential. Imagine a system that would not only allow for people to connect with countless events, but also enable hosts to create and run amazing events. On behalf of the Web Wizards, I just wanted to thank you for coming to our CIS/SMAD Capstone Final Presentation. We also wanted to quickly give a special thank you to Dr. Ezell and Professor Wang for their help as mentors as well as Professor Lough and Dr. Babik for their time and knowledge as our clients.

To start us off, I wanted to give the opportunity for anyone who wanted to see our documentation to do so. We will reference the documentation a couple time through the presentation, so If you want to follow along we will give some time to scan the QR code now.

Moving on, I wanted to quickly go over our Agenda: We will start with introducing our team and project approach. We will talk about our clients problems and the goals we created for the project. Following this we will show a high level use case diagram and explain our user research. This leads into showing the user features through our created personas as well as demonstrating their capabilities. We will wrap up with our user testing, next steps for the project, and have closing statements.

Onto the Introductions: My name is Devin Vicchio and I'm the Project Manager

## **TEAM INTRODUCTIONS**

Going into our approach, over the past 2 months our team has tirelessly worked towards creating Eventra, an event management system to be this centralized solution. We sought to expand and utilize our coding and user experience knowledge as well as further develop our project management abilities. This was pursued through a scrum framework. I operated as the scrum master, where I kept us on track through running our meetings and sprint retrospectives. Jonathan also worked in a leadership role as our product owner. He was in charge of keeping track of our product backlog as well as managing our targeted functionalities. The rest of our team, as well as Jonathan and I worked as developers with creating the necessary documentation and code. We believe operating through this approach allowed us to be very adaptable to the changing priorities of the system and accommodate any changes as needed.

The overarching problem we sought to remedy was a lack of a system to connect event participants and organizers. We found no current system in place for our clients and wanted to create an easy and user friendly integrated system. Eventra will allow organizers to easily manage their events and have participants to find and connect with these said events with ease, so that they may attend. Next, I'll pass it off to Jonathan to delve a little deeper into our project goals.

Speaker: Jonathan Lee

Thank you Devin. I will be going over some of the overarching project goals that we have been focused on achieving. Our top priority was to achieve the core functionality that the client wanted for the system. In its simple and big picture form, the core functionality includes the ability for event organizers to create events that participants can register for, and the ability for event participants to register and view details for these events so that they may attend them. User Interface and Experience formatting and User Research have also been important aspects of the system that we have been focusing on for this project. We wanted to ensure that our system is user friendly, intuitive, and accessible, so we spent a large amount of time focusing on user research in order to make sure our system accommodates user needs. Throughout the duration of the project we have also placed great emphasis on continuing to improve our documentation through the use of relevant diagrams and charts. This is our Use Case diagram, and is one of the many diagrams that we have created and utilized during the project. From a big picture perspective it shows all of the users of the system and how they would interact with the system as well as some of the essential actions that they will do. All additional documentation and diagrams are available in the digital packet on pages 20-24. Next I will hand it off to Ali to talk about User Research.

Speaker: Ali McCaleb

Thank you Jon. Before we could jump into designing the product, we needed to gather research on potential users in order to understand the problems people face with current event management systems, and how we might go about solving these problems. We conducted four user interviews, you can refer to page seven and eight in our documentation packet to see further details. We wanted to make sure we interviewed people ranging from different backgrounds, occupations, and ages. So two interviewees are university students and two interviewees are individuals with full time jobs. We also wanted to ensure we gathered individuals of different levels of technical skills and experience using event management systems in order to compare and contrast the challenges, obstacles and positives they faced when using these different systems. Two interviewees have registered for events as participants and two interviewees have experience organizing events. Some of the key takeaways we gathered that would be important to implement is including accessibility accommodations within the events like making sure there is enough space for all participants; enough chairs, enough food, as well as considering allergy and dietary restrictions, if there is catering, lunch and dinner activities, etc.

As for as the accessibility of the actual user interface, we curated a design with a color scheme and typography that is accommodating to all users, for example users with visual impairments like color blindness. Another takeaway we thought would be important to implement is limiting the amount of clicks in order to ensure the system is as user friendly as possible. So for example, one of our interviewees Rachitha, she works at Microsoft and attended the Microsoft Hackathon as a participant. She considers herself tech savvy but when she was registering online for this event, she couldn't find an easier way to sort through all of the event's teams and ended up having to click through 900 categories. So taking all of the feedback we gathered from this research into account, we were able to create two user personas, which I will be handing off to Julia to talk more in depth about, but first we'll allow space for any questions before we move forward.

Speaker: Julia Cheng

Thank you Ali. Now we'll be moving onto our two primary personas that we've created based off our research. Our two secondary personas, judge and administrator, are on pages 11 and 12, but for our presentation we want to focus on these primary users. For anyone who isn't familiar, creating personas is a way to apply user research, and helps us determine the most important requirements for our site. Our personas are a representation of real people and includes their goals and needs based off our research, but narrows down the type of users into more specific people that would be most likely to use our site.

This is Don Collins, he's an event planner and will use Eventra to create an event. Acting as Don Collins, I'll demonstrate how he'll interact with Eventra. First, I'll log in. Next, I'll navigate to create an event and fill in the necessary details. After an event is requested, an admin will approve the event. We will also go ahead and create a sub event. Now that my event is live, I can view participant sign ups. On the event page, as more sub events are created, the event schedule will be populated. Eventra allows organizers like me to efficiently create events and host it on a centralized system, while also attracting participant sign ups. Now Laura will be showing the user features of our other primary persona.

Speaker: Laura Bessellieu

Thank you, Julia! This is Mike West, he's a University Student and will use Eventra while attending an event. Acting as Mike West, I'll demonstrate how he would interact with Eventra. First, I'll create an account and then log in. We are going to click the Populate button just to save time but this is where we would fill in all the relevant user information. I do not have any allergies or accommodation needs but I appreciate the option to do so. Next, I'll navigate to sign up for events and sub-events and sign up for the event I would like. Finally, I can check in to the event I am going to. Now that I have signed up for the event, I change my mind and I would like to remove myself from the event by navigating back to the home page, finding the event I would like to remove myself from, and click "Cancel Registration".

Now I would like to join a team so on the Home page, I will click on Sign Up for a Team. Then I will pick the team I would like to join. I will click on the team I want to join and confirm that I am sure. I would also like to join another team so I will do the same thing as I just did. After this, I will see all the teams I am signed up for. Now I would like to leave a team so on the Home page I will click Want to Leave a Team. I will click on the team I would like to leave and confirm that I am sure. Now that I have done all that, I would like to view my scheduled events. On the home page, I will be able to see all of the events that I have signed up for in chronological order. Questions? Now Drew will go over our Usability Testing and our next steps.

Speaker: Drew Rogers

Thank you Laura. We conducted three usability tests during this process. We asked three individuals to go through our working demo as if they were a Eventra users. We asked them to complete certain tasks based on the different roles Eventra hosts. So we had Emily go through Eventra as if she had the role of a participant. Jack tested the administrator tasks, and Katie tested the organizer tasks. This helps us see potential obstacles, challenges and positives that users may face with our current system and ultimately implement changes based on real feedback to better our product. Katie Ramella, for example, is the Festival Scheduling Coordinator here at JMU. Katie has hosted hundreds of events with more than 700 participants, so we knew she would be a good candidate for user testing and would provide valuable feedback. We plan to implement some of the suggestions to our UI design in order to match our UI research. So going forward, we plan to add “smart room allocation”, Duo or Two-Factor Authentication compatibility, implement a payment system, collect all participant feedback of the events, and attaching files and other submissions for more Judge functionality. Now I’ll pass it to Ben to wrap up the presentation.

Speaker: Ben Trang

Thank you Drew, For the last part of our presentation we will be talking about our application on mobile devices. We have all features that our desktop application has formatted to mobile for quick and easy access for admins and organizers at events. With a few single touches a Organizer or Admin may allocate rooms, edit events, and view users at the drop of a hat. Expanding Eventra onto a mobile interface allows for greater accessibility and convenience for users. Navigating Eventra's user-friendly website, users can effortlessly explore events, register, and find pertinent information, fostering a comprehensive understanding of the event. Currently it is a system that works best on desktop devices but we wanted functionality and formatting on mobile for quick access at anytime. We hope you enjoyed our time with you tonight and hope to answer questions you may have, thank you.