## horizontal line



Happening Place

Sprint 1 Overview - Team 20

Viswajeeet Balaji

Seerat Dheer

Sanjay Babu Krishna

Devansh Dharmeshkumar Panirwala

Sreekara Yachamaneni

CS 30700

Software Engineering I

Purdue University

# Sprint Overview

In this sprint, we build the foundation of the project. A basic user interface is set-up, and the UI will be connected to the backend service via an API Gateway. We will be modelling and creating a customized REST API for our project. We will create a database design and structure AWS DynamoDB with the required details. We will be setting up our backend using Amazon Web Services. AWS API Gateway will be handling the request validation part.

In addition, we plan to connect our server with our database and be able to query basic data. We also aim at completing a significant part of our user interface using React JS framework. We also plan to begin implementing functionalities such as sign up and login. On a personal level, each member would learn and acquire the technologies required for the successful completion of the project.

# Scrum Master - Viswajeeet Balaji

# Meeting Plan - Fridays, 6:00- 7:00 pm and Saturdays, 12:30- 2:00 pm

# Risks and Challenges

One of the biggest challenges our team would face would be properly collaborating and synchronizing the workflow. Since this is the first software team project for most of us, we would need a significant amount of planning and follow ups in order to ensure that we achieve our goals by the end of the sprint. Learning the relevant technologies that some of us are unfamiliar with is another challenge. In addition to that, for this sprint, we would have to allocate tasks according to experience level and expertise to get started because waiting for everyone to fully familiarize with technologies would put the project flow at a risk. Some modelling and data structuring issues will warrant further group discussions.

# Current Sprint Detail

## User story #1

As a user I would like to signup for an Happening Place account

|  |  |  |  |
| --- | --- | --- | --- |
| # | Description | Estimated Time (hrs) | Owner |
| 1 | Create a signup UI to add new users | 4 | Sreekara |
| 2 | API Gateway to validate signup request | 3 | Viswajeeet Balaji |
| 3 | Create user tables in AWS DynamoDB | 2 | Sreekara |
| 4 | Connect the backend, frontend, and AWS DynamoDB for the completion of user signup | 5 | Viswajeeet Balaji |
| 5 | Unit Test - Correct & invalid input, no input, verify database entry | 5 | Sreekara |

### Acceptance Criteria:

1. Given the user signup is functional, a user model can be instantiated with the desired information in the AWS DynamoDB.
2. Given the user signup is functional, when a user signs up, a user instance can successfully be inserted into the user table in AWS DynamoDB.
3. Given the user signup is functional, when the user is signing up, a user can view the the page securely enter their information and save into the Happening Place database.
4. Given the user signup is functional, when the user submits their credentials, their information is smoothly sent to the server and the backend.
5. Given the user signup is functional, when testing, as a developer we should be able to test the input and different types of login, and all unit tests should pass when expected.

## 

## 

## 

## 

## 

## 

## 

## 

## 

## 

## 

## 

## User story #2

## As a user, I would like to login to my Happening Place account

|  |  |  |  |
| --- | --- | --- | --- |
| # | Description | Estimated Time | Owner |
| 1 | Create a front-end login page UI using React JS | 4 | Sanjay Babu Krishna |
| 2 | Obtain & send data to API gateway using RESTful API | 1 | Viswajeeet Balaji |
| 3 | API Gateway validation of HTTP request | 2 | Viswajeeet Balaji |
| 4 | AWS Lambda Server Code to authenticate login | 4 | Viswajeeet Balaji |
| 5 | Unit Test - check for correct, incorrect and invalid inputs. | 2 | Sreekara |

### 

### Acceptance Criteria:

1. The login page should have a clean, intuitive interface and should be easily accessible. Users should be able to input username and password and click on login button.
2. Given user inputs login details and when user tries to login, authentication will be based on the username and password which is verified by the server.
3. Given the user has clicked on the login button and when the server responds to authentication request, then the user is notified of login status with a color changing UI element..
4. Given user inputs valid login details and clicks on login button, then after successful login, browser should redirect to a landing home page.

## User story #3

As a user, I would like to reset my login credentials.

|  |  |  |  |
| --- | --- | --- | --- |
| # | Description | Estimated Time (hrs) | Owner |
| 1 | Create a button in the user profile, that redirects the user to a page asking for a new password | 1 | Devansh |
| 2 | On receiving the request, API gateway validates and call server which connects to the database | 2 | Devansh |
| 3 | Overwrite the previously stored password in the AWS | 2 | Devansh |
| 3 | Unit test- check if the user inputs and confirms a new password, make sure that the password is overwritten and not deleted. | 1 | Devansh |

### Acceptance Criteria:

1. Under the user profile, the user has an option to click a button that could enable the functionality to change password.
2. The button prompt would redirect the user to a new page, where the user can input and confirm a new password.
3. The user must enter a valid string of characters in order for the password to be accepted.
4. On confirmation and submission, the new password would replace the old password in the database.

## User story #4

As a guest, I would like to get recommendations on the events nearby, so that I can get the most relevant events nearby me.

|  |  |  |  |
| --- | --- | --- | --- |
| # | Description | Estimated Time (hrs) | Owner |
| 1 | Save user’s interests in order to get the most relevant events | 4 | Seerat Dheer |
| 2 | Save user’s previous events in the database | 4 | Seerat Dheer |
| 3 | Create an interactive dashboard with events displayed based on user’s interests | 2 | Seerat Dheer |
| 4 | Unit Test - verify database entry, ensuring duplicate events are not stored and displayed. | 5 | Seerat Dheer |

### Acceptance Criteria:

1. The event dashboard should be neatly structured and well organized, with a search bar and proper headings differentiating between search results and recommendations.
2. User can search for specific events, and if it has been created and stored in the database, it will be displayed under the searched results.
3. All his interests and previous searches would also be displayed under the ‘Recommendations’ section.
4. On selecting the event, the user would be able to see a bar on the the right side of the page displaying more information about the event.
5. The display bar will also have a button to join the event.

## User story #5

As a guest, I would like to view list of events in my zip code.

|  |  |  |  |
| --- | --- | --- | --- |
| # | Description | Estimated Time (hrs) | Owner |
| 1 | Ask user for zip code to provide the events nearby in front-end | 1 | Sreekara |
| 2 | API Gateway input request validation | 3 | Sreekara |
| 3 | Query list of event from database from server based on zip code | 2 | Sreekara |
| 4 | Unit Test - verify database entry, ensuring duplicate events are not stored and displayed, verify correct events are displayed | 2 | Sreekara |

### Acceptance Criteria:

1. Given the search by zip code is functional, the search bar should clearly specify that the user can search for events based on zip code.
2. Given the search by zip code is functional, when the user inputs a zip code, they get the nearest events first even if they are not in the same zip code.
3. Given the search by zip code is functional, when a user requests events based on the zip code, only the correct events are returned to the user.
4. Given the search by zip code is functional, when the user logs in, the events are displayed by zip code only when the user inputs the zip code.
5. Given the search by zip code is functional, while creating the event, the database correctly maps the zip code with the event.
6. Given the search by zip code is functional, when testing, as a developer we should check if the correct events are returned by zip code search.

## User story #6

As a host, I would like to create events so that I can communicate and collaborate with like minded people.

|  |  |  |  |
| --- | --- | --- | --- |
| # | Description | Estimated Time (hrs) | Owner |
| 1 | Create button for creating an event and display menu with required text fields | 2 | Devansh |
| 2 | Ask host for the details of the event like name, type, no of guests, location etc | 2 | Devansh |
| 3 | Generate a class for the event and assign the “Admin” role to host. Assign a unique token to the event | 5 | Sanjay Babu Krishna |
| 4 | Obtain & send data to API gateway using RESTful API in form of JSON format | 4 | Viswajeeet Balaji |
| 5 | Validate the request and then store the data in AWS dynamoDB | 3 | Viswajeeet Balaji |
| 6 | Unit Test -verify database entry,  Check for incorrect and invalid inputs | 2 | Sreekara |

### 

### Acceptance Criteria:

1. The class created should contain all valid fields and the token created should not match to the token of any other event.
2. The structure of the class should not change for different events and it should remain constant across the database.
3. The fields of the event should be mapped properly across the tables in databases
4. The create event button should display data fields in clear and neatly organized manner.
5. On clicking the event button some of the data fields should be filled in by default like name and token.
6. The event after getting validated and verified should be added to the AWS DynamoDB

## User story #7

As a host, I would like to modify/delete events.

|  |  |  |  |
| --- | --- | --- | --- |
| # | Description | Estimated Time (hrs) | Owner |
| 1 | Create buttons to modify and delete an already created/existing event | 4 | Sreekara |
| 2 | Display a menu all the modifiable data fields for the event like name, date, location etc | 5 | Devansh |
| 3 | Obtain the modified part of the class & send data to API gateway using RESTful API in form of JSON format | 4 | Sreekara |
| 4 | Validate the request and then update the data in AWS dynamoDB | 3 | Viswajeeet Balaji |
| 5 | Unit -verify database entry,  Check if the modified fields are incorrect and still valid | 2 | Seerat Dheer |

### Acceptance Criteria:

1. The create button should display a menu with modifiable data fields like name of the event, date, location, type and other fields.
2. The modified data fields should be appropriately updated in the AWS dynamoDB and in the front end menu.
3. If the host decides to cancel the event, the event should be removed from the database and all the collaborators and guests involved with should be notified by email and notification.
4. The fields of the event should be mapped properly across the tables in databases
5. If the host decides to modify contents on the event the modified part should be notified to everyone involved with the event.

## User story #8

As a guest, I would like to be able to view the event information such as location, time and event description

|  |  |  |  |
| --- | --- | --- | --- |
| # | Description | Estimated Time (hrs) | Owner |
| 1 | Create a panel in the dashboard that can display event details in a well-organized manner | 2 | Seerat Dheer |
| 2 | Display the panel on the right when the user clicks a particular event | 2 | Seerat Dheer |
| 3 | Fetch information stored in database when the button with event logo/name is prompted | 4 | Seerat Dheer |
| 4 | Unit Test -verify database entry, ensuring duplicate events are not stored and displayed, ensuring that all information relevant to that event is accessed. | 5 | Seerat Dheer |

### Acceptance Criteria:

1. The event display panel should be neatly structured and should display relevant event specifications such as description, location, time, date etc.
2. User has an option to search for an event and view it, or choose an event from the recommendations section. Depending upon the event, the display panel would reflect the information needed.
3. On clicking a particular event, a display panel would display the event information after fetching details from the tables storing them in its database.
4. The display bar will also have a button to join the event.

## User story #9

## As a guest, I would like to to be able to join an event

|  |  |  |  |
| --- | --- | --- | --- |
| # | Description | Estimated Time (hrs) | Owner |
| 1 | a ‘join event’ button in the user(guest) interface which will allow them to join an event of their liking | 3 | Sanjay Babu Krishna |
| 2 | Add the user to the event and display the users name and details to the participant list and database of said event | 3 | Sanjay Babu Krishna |
| 3 | Add event to users personal list of events and display event icon in the list. | 3 | Sanjay Babu Krishna |
| 4 | Alert the user about the changes and replace ‘join event’ button with a ‘remove event’ button | 1 | Sanjay Babu Krishna |
| 5 | Unit -testing: check if all new fields are functioning properly | 2 | Sanjay Babu Krishna |

### Acceptance Criteria:

1. Join event button should work upon clicking and call necessary functions to make changes
2. Host should be able to view the new guest under an active and real time list of participants for the event and should be able to view user details
3. The guest(user) should be able to view the newly added event in their personal list of events
4. When join event button is clicked, the Join event button should be effectively be replaced with the new button

## 

## User story #10

As a guest, I would like to be able to remove myself from the event

|  |  |  |  |
| --- | --- | --- | --- |
| # | Description | Estimated Time (hrs) | Owner |
| 1 | Create a remove event’ button in the user(guest) interface which will allow them to remove an event from their list of events | 1 | Sanjay Babu Krishna |
| 2 | remove the user from the event and remove the users name and details from the participant list and database of said event | 3 | Sanjay Babu Krishna |
| 3 | remove event from users personal list of events and remove event icon in the list. | 3 | Sanjay Babu Krishna |
| 4 | Alert the user about the changes and replace ‘remove event’ button with a ‘join event’ button which should perform all its functions | 3 | Sanjay Babu Krishna |
| 5 | Unit -testing: check if all new fields are functioning properly | 2 | Sanjay Babu Krishna |

### Acceptance Criteria:

1. Remove event button should work upon clicking and call necessary functions to make changes
2. The guest should be removed from the active and real time list of participants for the event
3. The events should be removed from the personal event list of the user.
4. When remove event button is clicked, the remove event button should be effectively be replaced with the new button

## 

## 

## 

## 

## User story #11

As a host, I would like to see a list of people who have signed up for this event

|  |  |  |  |
| --- | --- | --- | --- |
| # | Description | Estimated Time (hrs) | Owner |
| 1 | Create a panel which shows a list of guests participating in the event | 2 | Devansh |
| 2 | Fetch data from the database to get a list of guests related to the event in JSON format | 2 | Devansh |
| 3 | Update the guest list every time a guest joins or leaves the event so that the host can keep track of the guests in real time | 3 | Devansh |
| 3 | Unit test-  Make sure that same guest is not registered for the event more than time | 1 | Devansh |

### Acceptance Criteria:

1. The panel should be created once the event is created by the host.
2. The panel should updated frequently and it should show correct information about the guests.
3. The host should be able to view the profile of the guest by clicking on the guest.
4. All the unit tests should pass the validity checks

# 

# Product Backlog

1. ~~As a user I would like to signup for an Happening Place account.~~
2. ~~As a user I would like to login and manage my Happening Place account.~~
3. ~~As a user I would like to reset my login credentials for my account.~~
4. ~~As a user, I would like to get recommendations on the events nearby, so that I can get the most relevant events nearby me.~~
5. ~~As a guest, I would like to view list of events in my zip code.~~
6. As a guest, I would like to view list of events around me in a map. (if time allows)
7. As a guest, I would like to have a recommended list of events based on my interests
8. As a guest, I would like to have the feature of sorting through available events based on certain filters, so that I can view events which are aligned to my interests
9. ~~As a guest, I would like to be able to view the event information such as location, time and event description~~
10. ~~As a guest, I would like to be able to join an event~~
11. ~~As a guest, I would like to be able to remove myself from the event~~
12. As a guest, I would like to be reminded about any upcoming events I have enrolled in, so that I do not forget to attend the event
13. As a guest, I would like to have a timeline feature which lists all events I have attended in the past.
14. As a guest, I would like to have the ability to make my profile public or private.
15. As a guest, I would like to view profiles of other users and connect with them.
16. As a guest, I would like to able to view events visited by my friends.
17. As a guest, I would like to able to share my events with friends.
18. As a guest, I would like to have direct messaging feature with the event host, so that I can communicate directly with him or her.
19. As a guest, I would like to be able to rate an event I attended, so that other users will know the quality of the events organized by this particular host
20. ~~As a host, I would like to create events so that I can communicate and collaborate with like minded people.~~
21. ~~As a host, I would like to delete or modify the event details in case there is change of location or time due to unforeseen circumstances.~~
22. As a host, I would like to add contributors to this event by searching for their username.
23. As a host, I would like to be able to create a list of “cards” .i.e a list of tasks for to be completed for the specific event.
24. As a host, I would like to be able to manage all contributors for a specific event by assigning specific responsibilities(“cards”) to them.
25. As a host, I would like to have a separate channel of communication for with the contributors based on their assigned cards.
26. ~~As a host, I would like to see a list of people who have signed up for this event.~~
27. As a host, I would like to see the demographics of the people who have signed up for a particular event based on the user’s interest tags, so that the event can be tailored to a specific audience
28. As a host, I would like to be able to communicate new information to the guests so that they can stay updated about the event
29. As a host, I would like to manage questions and responses from participants and forward them to the assigned contributors for appropriate response.
30. As a host, I would like to view past events in a timeline format for historical records purposes
31. As a host, I would like to view ratings and reviews of the event so that I can improve the event quality in the future.
32. As a host, I would like to use tags to describe the event so that the event can pop up in the recommended list for users who have similar tags.
33. As a host, I would like to be able to select the view mode of the event .i.e make an event either a closed private event, open to a select few or make it public.