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**Team 12 - Sprint 2 Planning Document**

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### **Sprint Overview**

During this sprint we plan on implementing chat rooms and getting their functionality up and running. We intend to implement the database to store the messages and users in a chat room. We will connect the database to to the server which can query the latest chat updates. The frontend will focus on creating new pages and making the workflow for chat rooms smooth. The server should ensure that chat info and messages are transferred correctly and efficiently.

#### **Scrum Master**

Arvindh Swami

#### **Meeting Plan**

Tuesday, Thursday, Saturday: 8pm - 10pm

#### **Risks and Challenges**

Finding a good and efficient way to implement a chat room will be a challenge. It will need a lot of communication between the front end - server - database. One potential risk is that we will be querying the database too often and constantly be adding messages to it. It will be a challenge to avoid this and find a way to buffer the messages. It can also be a challenge to integrate a chat room API if we decide to use one. Creating a good UI for the chat rooms with all the features from the user stories can be a challenge.

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### **Current Sprint Detail**

#### **User Story #1**

As a company, I would like to be able to send an email invite link to an intern.

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| --- | --- | --- | --- | --- |
| **#** | **Description** | **Time** | **Team** | **Owner** |
| 1 | Fix function submit an email link | 1 | Frontend | Kunal |
| 2 | Test to see if the invite link works | 1 | Frontend | Kunal |

##### **Acceptance Criteria**

* Given the invitation system is successfully implemented, when the company invites an intern then I expect them to be added to the Pair platform.
* Given the invitation system is well designed, when the company invites an intern then I expect them to be able to choose the location for the intern.
* Given that the email link is successfully sent, the intern should receive an email containing the invite link.

#### **User Story #2**

As an intern, I would like to login and update my profile settings.

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| **#** | **Description** | **Time** | **Team** | **Owner** |
| 1 | View previous preferences when you log in | 2 | Frontend | Adam |
| 2 | Make sure the correct preferences are sent in a JSON | 2 | Server | Hiten |
| 3 | Fix redirection for updating profile settings | 1 | Frontend | Adam |
| 4 | Test the front end components for updating profiles | 2 | Frontend | Adam |

##### **Acceptance Criteria**

* Given that the login and profile pages are working, when a user logins in, they should be able be able to access the profile settings page.
* Given that the user has previous preferences, they are visible the next time the user enters the preferences page.
* Given that the database works, when a user changes their preferences, the changes are visible in the database.

#### **User Story #3**

As a company, I would like to be able to create a general company profile.

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| --- | --- | --- | --- | --- |
| **#** | **Description** | **Time** | **Team** | **Owner** |
| 1 | Design and create UI | 2 | Frontend | Adam |
| 2 | Create calls to server and format the responses for the UI (create and retrieve profile) | 3 | Frontend | Kunal |
| 3 | Receive company details from the front end and send to database | 3 | Backend | Arvindh |
| 4 | Store the company details in the database | 2 | Database | Darwin |
| 5 | Test the authentication to be able to modify the profile | 2 | Backend | Hiten |
| 6 | Test the UI and see if it can take correct input | 1 | Frontend | Adam |
| 7 | Test the database to see if company details are correctly stored | 1 | Database | Arvindh |

##### **Acceptance Criteria**

* Given the register page is successfully implemented, when the first employee of a company registers they are able to create a company profile
* Given that the employee is able to successfully create a company profile, when the profile is created the employee can input their company’s details
* Given the employee is able to input their company’s information, when the employee submits the company’s information it is successfully written into the database

#### **User Story #4**

As a user, I would like to be able to reset my password if I forget it.

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| --- | --- | --- | --- | --- |
| **#** | **Description** | **Time** | **Team** | **Owner** |
| 1 | Create UI components | 1 | Frontend | Adam |
| 2 | Create and format requests to the server’s API | 2 | Frontend | Kunal |
| 3 | Test each UI component | 1 | Frontend | Adam |

##### **Acceptance Criteria**

* Given the password system is successfully implemented in the server, when a user forgets their password they should be able to reset it.
* Given the UI element is successfully implemented, when a user forgets their password they are able to click on a forgot my password button.
* Given that the server is correctly implemented, when a user tries to forget a password for an account that does not exist, they receive an error message.

#### **User Story #5**

As a company, I would like to be able to have a separate chat for each company location

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| --- | --- | --- | --- | --- |
| **#** | **Description** | **Time** | **Team** | **Owner** |
| 1 | Server function that gets a username and adds them automatically | 2 | Backend | Hiten |
| 2 | Server function that gets and sends a message through chat-rooms | 3 | Backend | Hiten |
| 3 | Test Server Functions | 5 | Backend | Hiten |
| 4 | Add new interns into their relevant company location chat room | 2 | Database | Darwin |
| 5 | Store chat room messages along with who sent it in the database | 3 | Database | Darwin |
| 6 | Test that the interns have access to that chat room | 2 | Database | Darwin |
| 7 | Create Chat room UI and connections to server functions | 5 | Frontend | Kunal |
| 8 | Show the relevant chatrooms for the company | 2 | Frontend | Adam |
| 9 | Retrieve chat room messages along with who sent it from database to send to server | 3 | Database | Arvindh |
| 10 | Create new chat room with list of members in database | 2 | Database | Arvindh |
| 11 | Test database to check if chat room messages are appropriately stored in the database | 3 | Database | Arvindh |
| 12 | Test that the frontend contains all of the chats that are in the database | 1 | Frontend | Adam |

##### **Acceptance Criteria**

* Given that the company exists, when an intern is added, he is put into a chatroom.
* Given that the company has multiple locations, when they add locations, there is a chatroom for all locations.
* Given that the intern has been added, when an intern goes into the chatroom, they are able to send messages.

#### **User Story #6**

As a company moderator, I would like to be able to control who can post and talk in the company chat

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| --- | --- | --- | --- | --- |
| **#** | **Description** | **Time** | **Team** | **Owner** |
| 1 | Change authority levels and see if they can post in the chat room | 2 | Backend | Hiten |
| 2 | Test the change | 1 | Backend | Hiten |
| 3 | Create functions to remove interns from a chat room | 1 | Database | Darwin |
| 4 | Create the UI to moderate the chatrooms | 3 | Frontend | Adam |
| 5 | Create function to ban an intern from a single chat room | 2 | Database | Arvindh |
| 6 | Create function to unban an intern from a single chat room | 1 | Database | Arvindh |
| 7 | Test that the frontend calls the correct functions when the moderator clicks on a control button | 1 | Frontend | Kunal |

##### **Acceptance Criteria**

* Given that the company has a chatroom, when the moderator accesses the chat settings, the moderator can add interns to it.
* Given that the company has a chatroom, when the moderator accesses the chat settings, the moderator can delete interns from it.
* Given that the company has a chatroom, when the moderator accesses the chat settings, the moderator can ban an intern from the chatroom.
* Given that the company has a chatroom, when the moderator accesses the chat settings, the moderator can unban an intern from the chatroom.

#### **User Story #7**

As a user, I would like to be able to report another user for acting inappropriately in chat

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| --- | --- | --- | --- | --- |
| **#** | **Description** | **Time** | **Team** | **Owner** |
| 1 | Log Report and send complaint to a moderator | 3 | Backend | Hiten |
| 2 | Test the Complaint Function | 1 | Backend | Hiten |
| 3 | Create an UI element to report the user and send the request | 2 | Frontend | Kunal |
| 4 | Create an UI element to display complaints in the employee page and process them | 3 | Frontend | Adam |
| 5 | Test the frontend elements and check for errors | 2 | Frontend | Kunal |
| 6 | Log the complaint and the intern’s status in the database | 2 | Database | Darwin |
| 7 | Test that the complaint feature works correctly and doesn’t affect other chat rooms | 2 | Database | Darwin |

##### **Acceptance Criteria**

* Given that the chatroom has a moderator, when an intern sends a complaint, the complaint gets sent to the moderator
* Given that the chatroom does not have a moderator, when an intern sends a complaint, the complaint gets added to the database to be resolved later.
* Given that the chatroom has a moderator, when a moderator receives a complaint, the complaint can be resolved by the moderator.

#### **User Story #8**

As an intern, I would like to be able to send private messages to other interns.

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| --- | --- | --- | --- | --- |
| **#** | **Description** | **Time** | **Team** | **Owner** |
| 1 | Make a private message system and show the correct name for the person | 3 | Backend | Hiten |
| 2 | Create the private chat interface | 2 | Frontend | Kunal |
| 3 | Display all the private chats in the chat list | 2 | Frontend | Adam |
| 4 | Test to make sure that all of the chats that are in the database are shown in the frontend | 1 | Frontend | Adam |

##### **Acceptance Criteria**

* Given a private message exists, when a message is sent, it is shown in the UI.
* Given private messages work correctly, when a user creates a private message, they can only add 1 other person.
* Given private messages work correctly, when a user sends a private message, it is appropriately stored in the database.

#### **User Story #9**

As an intern, I would like to be able to form a housing group.

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| --- | --- | --- | --- | --- |
| **#** | **Description** | **Time** | **Team** | **Owner** |
| 1 | Create a function that makes a new instance of a chat room in the database | 2 | Database | Darwin |
| 2 | Create a housing group on the database with the selected UserIDs | 3 | Server | Hiten |
| 3 | Implement chat rooms in the database | 4 | Database | Darwin |
| 4 | Stress Test the system | 3 | Server | Hiten |
| 5 | Test the chatrooms, make sure they are efficient and that the database is not queried constantly | 4 | Database | Darwin |
| 6 | Create chatroom system that connects to the housing interface | 4 | Frontend | Kunal |
| 7 | Create intern list page and display all the chatrooms the intern is in | 4 | Frontend | Arvindh |
| 8 | Display all interns in a chatroom when an intern selects a chatroom | 2 | Frontend | Darwin |
| 9 | Display details about each intern in a chatroom | 2 | Frontend | Arvindh |
| 10 | Redirect user to intern’s profile page when an intern is selected | 2 | Frontend | Darwin |
| 11 | Test the frontend UI elements work correctly | 2 | Frontend | Adam |
| 12 | Create a function to get the list of all interns in a chat room | 2 | Database | Darwin |

##### **Acceptance Criteria**

* Given that the housing system is implemented correctly and there are multiple users, a user can add people he/she want to a housing group.
* Given that the housing system is correctly implemented, when a user receives a request to join a housing group, the user can accept or deny it.
* Given that the housing system is correctly implemented, when the chat owner wants to remove an intern from the chat, he can remove them.
* Given the user can see their chatrooms, when a user views their chatrooms they are only shown the chatrooms that they are a part of.

#### **User Story #10**

As an intern, I would like to be able to leave a chat

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| --- | --- | --- | --- | --- |
| **#** | **Description** | **Time** | **Team** | **Owner** |
| 1 | Create a function that removes the intern from the chat room | 2 | Database | Darwin |
| 2 | Create an UI element to leave a chatroom | 2 | Frontend | Kunal |
| 3 | Test that UI element correctly calls the function to remove said user from a chat | 1 | Frontend | Adam |
| 4 | Write a server function to remove a person from the chat room | 2 | Server | Hiten |

##### **Acceptance Criteria**

* Given that the user is in the chatroom, when they press leave chat room, they are removed from it in the database.
* Given that the chatroom is implemented, when a user leaves a chat room, everyone else no longer sees that person as a member.
* Given that the chatroom is implemented, when a user leaves a chat room, that chat room will no longer be displayed to the user.

#### **User Story #11**

As an intern, I would like to see how much my preferences match with other interns.

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| --- | --- | --- | --- | --- |
| **#** | **Description** | **Time** | **Team** | **Owner** |
| 1 | Design scoring system based on intern housing and roommate preferences | 2 | Backend | Arvindh |
| 2 | Create function to compute percentage match between interns | 2 | Backend | Arvindh |
| 3 | Display percentage match for interns on intern list page | 2 | Frontend | Arvindh |
| 4 | Create a function to get the preferences from the database | 1 | Database | Darwin |
| 5 | Test to make sure the preference match (in comparison to the user’s) shows up for all interns | 1 | Frontend | Adam |

##### **Acceptance Criteria**

* Given that two interns completed the preferences form, when the server calls the function to compute a percentage match between two interns, the appropriate percentage will be returned.
* Given the intern can access the intern list page, when the intern is viewing other users in a chatroom, a percentage match will be displayed for other interns.
* Given the intern can access the intern list page, when the intern is viewing other users in a chatroom, a percentage match will not be displayed for moderators.

#### **User Story #12**

As a company, I would like to be able to remove interns from the company when the intern’s time at the company is over.

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| --- | --- | --- | --- | --- |
| **#** | **Description** | **Time** | **Team** | **Owner** |
| 1 | Create a function that removes the intern from all chat rooms | 2 | Database | Darwin |
| 2 | Create requests to remove interns from the company if requested | 2 | Frontend | Kunal |
| 3 | Create a function that deletes interns and all of their preferences | 2 | Database | Arvindh |
| 4 | Test to make sure intern in no longer in database | 1 | Backend | Arvindh |
| 5 | Test to make sure the UI button calls the correct server function | 1 | Frontend | Adam |

##### **Acceptance Criteria**

* Given the intern’s time at the company is over, when the company removes an intern the intern is no longer shown as a member of the chat room to other users.
* Given the intern’s time at the company is over, when the company removes an intern the intern is no longer able to login to the Pair platform.
* Given the intern’s time at the company is over, when the company removes an intern the intern is no longer shown in the database.

#### **User Story #13**

As a user, I would like the user interface to be simple, intuitive, and responsive.

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| --- | --- | --- | --- | --- |
| **#** | **Description** | **Time** | **Team** | **Owner** |
| 1 | Clean up the UI for the chatroom interface | 4 | Frontend | Kunal |
| 2 | Make the UI for the entire landing page and general internal flow | 6 | Frontend | Adam |
| 3 | Test flow of webpage | 2 | Frontend | Adam |

##### **Acceptance Criteria**

* Given the website is correctly implemented, when a user navigates the site it flows well.
* Given the website is correctly implemented, when a user navigates the site it is easy to use.
* Given the website is correctly implemented, when a user clicks a button, the appropriate event occurs in the server.

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### Current Product Backlog (22/33 stories completed)

1. **As a company, I would like to be able to create a general company profile**
2. **As a company, I would like to be able to have a separate chat for each company location**
3. **As a company, I would like to be able to create a moderator account for company moderators**
4. **As a company, I would like to be able to send an email invite link to an intern.**
5. **As a company, I would like to be able to keep a master list of invited interns.**
6. **As a company, I would like to be able to remove interns from the company when the intern’s time at the company is over.**
7. **As a company moderator, I would like to be able to control who can post and talk in the company chat**
8. **As a user, I would like the user interface to be simple, intuitive, and responsive.**
9. **As a user, I would like to be able to reset my password if I forget it.**
10. **As a user, I would like to be able to report another user for acting inappropriately in chat**
11. **As an intern, I would like to be able to sign up for Pair using the email invite link.**
12. **As an intern, I would like to create my profile with relevant information about myself.**
13. **As an intern, I would like to include my preferences for an apartment.**
14. **As an intern, I would like to login and update my profile settings.**
15. **As an intern, I would like to chose the number of roommates I would like to live with.**
16. **As an intern, I would like to be able to form a housing group.**
17. As an intern, I would like to get notifications about house listings I have selected.
18. As an intern, I would like to see how many people want to book the same place as me
19. **As an intern, I would like to have a choice to upload a profile picture.**
20. **As an intern, I would like to include links to other social media sites like Twitter and Facebook.**
21. **As an intern, I would like to be able to send private messages to other interns.**
22. As an intern, I would like to know the approximate locations of all for sale houses\apartments.
23. As an intern, I would like to filter houses/apartments by distance, price range, and other preferences.
24. **As an intern, I would like to see how much my preferences match with other interns.**
25. As an intern, I would like to be able to go to the official house listings website.
26. **As an intern, I would like to delete my account.**
27. **As an intern, I would like to be able to leave a chat**
28. If time allows, I would like to get suggestions for housing based on my housing preferences.
29. If time allows, I would like to be able to read reviews of places that I am looking to stay at.
30. If time allows, I would like to be able to write and review places where I have previously stayed.
31. If time allows, I would like to be able to hide all posts by another user.
32. If time allows, as an intern, I would like to get notifications about people leaving my housing group.
33. If time allows, create an administrator portal to verify companies requesting access