**DnDeity**

**Team 22 - Sprint 1 Plan**

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**Sprint Overview:** In this sprint we will set up the frontend frameworks and the S3 hosting as well as create the user creation, login, and character creation capabilities. At the end of the sprint a user will be able to create an account, reset their password, and login. They will also be able to create a character using our DnD character creation tool. Our plan is to build the fundamental capabilities of our app in this sprint in order to be able to build on that foundation in the later sprints.

**Scrum Master:** Nicholas Fordyce

**Meeting Plan:** Meet with Project Coordinator on Thursday at 5:30, Meetings on Tuesday at 4:00pm and Sundays at 5:00pm

**Challenges and Risks:** One of the challenges for this sprint will be figuring out how to host the different parts of our app. Only one member of our group has experience working with React, so other group members will need to be caught up to speed on React, and we will all need to learn how to work with MySQL and Flask effectively. It will be challenging to learn all of these frameworks and create an application at the same time. We are taking a risk by using the DnD API, because we’re unsure whether or not it has all of the data we need for our application.

1. As a user, I would like to be able to register for a DnDeity account

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| --- | --- | --- | --- |
| Number | Description | Time | Owner |
| 1 | Set up React App | 30min | Nicholas |
| 2 | Set up Bootstrap | 30min | Nicholas |
| 3 | Set up Flask Server | 2hr | Riley |
| 4 | Set up REST API | 5hr | Riley |
| 5 | Set up MySQL Database | 2hr | Ben |
| 6 | Design frontend create user page | 5hr | Christian |
| 7 | Backend endpoint for creating new user | 4hr | Riley |
| 8 | Create database tables for users | 2hr | Ben |
| 9 | Write insert query for new users | 2hr | Ben |
| 10 | Testing: Display error if username/password/email are empty or if a username is taken, unit test for acceptable character input | 2hr | Nicholas |

* Given that the create account feature is functional, then a user can view a page where they can specify their username, email, and password to create an account
* Given that the create account feature is functional, then a new user will be inserted into the users table in the database
* Given that the create account feature is functional, then a user will logged in and redirected to their homepage after creating an account

1. As a user, I would like to be able to login to DnDeity

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| --- | --- | --- | --- |
| Number | Description | Time | Owner |
| 1 | Design frontend login page | 2hr | Christian |
| 2 | Backend endpoint for logging in | 2hr | Riley |
| 3 | Use Flask-Login to handle user sessions | 3hr | Riley |
| 4 | Write query for getting user info | 1hr | Ben |
| 5 | Set up RDS hosting | 2hr | Ben |
| 6 | Set up S3 buckets | 2hr | Ben |
| 7 | Set up Elastic Beanstalk | 2hr | Ben |
| 8 | Set up CloudFront | 2hr | Ben |
| 9 | Testing: Display error if username/password are empty or if username/password are invalid | 1hr | Nicholas |

Acceptance Criteria:

* Given that the user database is functioning properly, find the provided user name, and compare it to the assigned password
* Given that the username and password match, and that the home screen is working, load the home page with all material relating to the user
* Given that the username and password are invalid, deny entry to the site and ask the user to attempt again

1. As a user, I would like to be able to reset my password

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| --- | --- | --- | --- |
| Number | Description | Time | Owner |
| 1 | Design reset password page | 2hr | Nicholas |
| 2 | Backend endpoint for sending reset password email | 1hr | Riley |
| 3 | Set up SMTP for sending email | 4hr | Riley |
| 4 | Testing: Able to reset password from email, new password correctly updates. | 2hr | Ben |

Acceptance Criteria:

* Given that the change password feature is functional, the corresponding user will receive an email about changing their password
* Given that the change password feature is functional, the user will be able to click a link in the email and navigate to a page where they can change their password
* Given that the change password feature is functional, the user’s password will be updated in the database
* Given that the change password feature is functional, users will only be able to change the password of the account that their email is associated with

1. As a player, I would like to be able to create a character sheet and set details such as a character’s name, ability modifiers, level, class abilities, and description.

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| --- | --- | --- | --- |
| Number | Description | Time | Owner |
| 1 | Design character creator race section | 2hr | Nicholas |
| 2 | Design character creator class section | 2hr | Nicholas |
| 3 | Design character creator ability score section | 2hr | Nicholas |
| 4 | Design character creator background section | 2hr | Nicholas |
| 5 | Design character equipment modal | 3hr | Nicholas |
| 6 | Design spell modal | 7hr | Christian |
| 7 | Create tables for DnD API data | 2hr | Ben |
| 8 | DnD API data integration | 7hr | Ben |
| 9 | Design character description section | 2hr | Christian |
| 10 | Design character creator navigation menu | 2hr | Nicholas |
| 11 | Backend endpoint for getting DnD data from the database | 2hr | Riley |
| 12 | Backend endpoint for saving characters | 2hr | Riley |
| 13 | Database insert query for new characters | 2hr | Ben |
| 14 | Create character instance object | 3hr | Riley |
| 15 | Build and handle server requests/responses on frontend | 4hr | Nicholas |
| 16 | Testing: Check database to see if the character saved contains all of the information entered on the character creation screen | 2hr | Nicholas |

* Given that the character creation feature is functional, then the user can create a character and edit its’ race, class, ability scores, spells, items, and description
* Given that the character creation feature is functional, then a new character will be inserted into the database when the character is created
* Given that the character creation feature is functional, then all of the information pulled from the DnD API will be stored in our database

1. As a player, I would like to update and delete my existing character sheets.

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| --- | --- | --- | --- |
| Number | Description | Time | Owner |
| 1 | Design DnDeity Home Page | 5hr | Christian |
| 2 | Design Home Page Navbar | 2hr | Nicholas |
| 3 | Set up url routing on frontend using React Router | 3hr | Nicholas |
| 4 | Design character sheet selection page | 7hr | Christian |
| 5 | Design confirmation prompt for deleting characters | 2hr | Christian |
| 6 | Backend endpoint for getting characters | 1hr | Riley |
| 7 | Backend endpoint for deleting characters | 1hr | Riley |
| 8 | Testing: Make multiple characters to see if they appear, delete characters to test if they disappear | 2hr | Ben |

* Given that a user can manage their characters, then the user can view a page with a list of all of their created characters
* Given that a user can manage their characters, then the user can delete a character
* Given that a user can manage their characters, then the user can click on an existing character to edit it
* Given that a user can update their characters, then any updated characters will be updated in the database
* Given that the home page is functional, then the user can navigate between the home page, character list page, and character creation page

**Remaining Backlog:**

1. ~~As a user, I would like to be able to register for a DnDeity account~~
2. ~~As a user, I would like to be able to login to DnDeity~~
3. ~~As a user, I would like to be able to reset my password~~
4. (If time allows) As a user, I would like to be able to send private messages to other users
5. ~~As a player, I would like to be able to create a character sheet and set details such as a character’s name, ability modifiers, level, class abilities, and description.~~
6. ~~As a player, I would like to update and delete my existing character sheets.~~
7. As a player, I would like a level up function that automates the updating of my character sheet
8. ~~As a player, I would like to view and update my inventory.~~
9. As a player, I would like to see a list of spells available to me and use them.
10. As a player, I would like to be able to join a game
11. As a player, I would like my character to be able to perform attacks and actions available to me during a game.
12. As a player, I would like to update my own pictures for my avatar
13. As a dungeon master I would like to be able to make a lobby to host a game
14. As a dungeon master I would like to be able to make a map
15. As a dungeon master I would like to add monsters and events to maps
16. As a dungeon master I would like to see what spells the players use
17. As a dungeon master I would like to see the results of player rolls
18. As a dungeon master I would like to have initiative order sorted for me
19. As a dungeon master I would like to add effects to the players
20. As a dungeon master I would like to make new assets for the map
21. As a dungeon master I would like to update the stats of monsters in fights
22. As a dungeon master I would like to set restrictions on character creation
23. As a dungeon master I would like to add monsters to bestiary