

CSCI3130 Group 14 Project Timeline

Following in the third labs footsteps our group thought it would be a good idea to create user stories and then tasks from those user stories. Below is a list of our tasks with their assigned story point value next to them in bold. These points represent the level of challenge we think these tasks will present us with, which in theory would give us a better estimate for our timeline as tasks with higher scores would take longer to complete.

User Management:

1. sign up:
 - a. Database setup (**3**)
 - b. Storing new accounts in database (email/password) (**5**)
 - c. Password validation (regex) (**3**)
 - d. UI/UX for sign up page (**5**)
2. Login:
 - a. Link database to page (**2**)
 - b. Verify correct user info on sign in attempt (**1**)
 - c. Display error message on wrong information (**1**)
 - d. Take user to workspace page on correct info (**2**)
 - e. UI/UX for login page (similar to sign up) (**2**)
3. Forgot Password:
 - a. Send user a link in email to reset their password (**5**)
 - b. Create database query to allow for changes in password for selected email (**8**)
 - c. UI/UX for forgot password page (similar to sign up) (**2**)

Create a workspace and boards:

1. Create main page after login:
 - a. UI/UX design
 - i. taskbar (list of workspaces, boards, create button, logout button) (**4**)
 - ii. Allow user to switch between different workspaces and boards (**4**)
 - iii. Design cards for tasks (similar to this: <https://trello.com>) (**4**)
 - b. Database setup for workspace, boards, tasks and status(to-do, in progress, done) (**8**)
2. Create a workspace:
 - a. Allow users to click create button on taskbar and create a new workspace (**2**)
 - b. Update database with new workspace information (name, details, user access) (**3**)
3. Add new members to workspace:
 - a. Allow users to invite other registered users to their workspace (through email? invite button) (**8**)
 - b. Update database with new user upon receiving invite (**3**)

4. Update workspace details:
 - a. Allow users to change workspace details or name through the workspace UI (4)
 - b. Push the changes to the back end (4)
5. Create a board inside the workspace:
 - a. Implement a create new board function on main create button (2)
 - b. Allow users to create a new board (2)
 - c. Database needs to be updated with board name (3)
6. Delete a board:
 - a. Create a delete button (2)
 - b. Allow users to delete unwanted boards by adding functionality to button (4)
 - c. Database updated to reflect user changes (4)

Task Management

1. Create tasks:
 - a. Implement a create tasks function on main create button (2)
 - b. Allow users to create tasks for their selected board (2)
 - c. Add the new task to the database with default status To-do and unassigned (3)
2. Assign a task:
 - a. Create new button on tasks called: assign (2)
 - b. Allow user to assign task to member of the workspace (4)
 - c. Reflect the change in the database (4)
3. Change the status:
 - a. Allow user to change the status of task to completed or in progress (drag and drop or drop-down menu) (5)
 - b. Reflect the change in the database (4)
4. Create a date field and set date of completion:
 - a. Allow users to set a date in which they hope to finish the task (new button) (2)
 - b. Store date in database (3)

Search and filter

1. Search for task cards based on task names:
 - a. Create a search bar for the board (2)
 - b. Add functionality to search bar and display tasks (4)
2. Filter based on member names, cards assigned to current user and date of completion:
 - a. Create a filter button for the board (2)
 - b. Create a filter function for searching by name (4)
 - c. Create a filter function for searching by current user (4)
 - d. Create a filter function for searching by date of completion (4)

After assigning all 42 tasks a story point value as a group, we tried to keep in mind the number of tasks and story point values when distributing work between releases. Below is our completed timeline:

Release 1:

Week 1: Setup Spring Boot application

Week 2: Setup React App

Week 3: created ERD model.

Week 4: Created a project timeline.

Release 2:

Week 5: Creating CI pipeline, TDD for backend (include test cases only for the business logic and database). Creating user management sign up/ login feature.

Week 6: Creating user management's password feature. Creating workspace main page UI/UX

Week 7: implement workspace creation, implement adding new members to workspace, implement updating workspace details.

Week 8: Implement board creation inside workspace, Implement a delete button for the board.

Release 3:

Week 9: Create tasks on board, implement assigning tasks and implement task status.

Week 10: Create date field and implement due dates, Implement a search box for tasks and its functionality.

Week 11: Create all the filter functions needed for tasks.

Week 12: Refactoring.