

Polynomial: Test Plan and Report

Document Title: Test Plan and Report

Product Name: Polynomial

Team Name: Polynomial Team

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System Test Scenarios

Scenario: Create a Project and Select Between Multiple Created Projects (Pass/Fail)

User Story: As a manager, I want to be able to create a project and select between multiple created projects, so I can manage multiple different projects without confusion.

Steps:

1. **Launch the Project Management App:**
 - Open the activity on Discord
 - **Create a New Project:**
 - Click on the "Create Project" button.
 - Enter project name: **Project Alpha**
 - Click 'Submit'.
 - Repeat steps to create another project with the name: **Project Beta**.
2. **Select a Project:**
 - Look in the project selection area.
 - Select **Project Alpha**.
 - Verify that the app displays details and tasks related to **Project Alpha**.
 - Select **Project Beta**.
 - Verify that the app displays details and tasks related to **Project Beta**.

Expected Outcome:

- **Project Creation:** Two projects named **Project Alpha** and **Project Beta** are created and saved in the system.
- **Project Selection:** When **Project Alpha** is selected, the app displays details specific to **Project Alpha**. When **Project Beta** is selected, the app displays details specific to **Project Beta**.

Pass/Fail Criteria:

- **Pass:** All expected outcomes are met without any errors. The projects are created and can be selected without any issues.
- **Fail:** Any of the expected outcomes are not met or an error occurs.

Result: Pass

Comments:

Scenario: Add or Remove Team Members from a Project (Pass/Fail)

User Story: As a manager, I want to be able to add or remove team members from a project through the UI or through Discord roles, so we can easily manage who is in the project.

Steps:

1. **Launch the Project Management App:**
 - Open the activity on Discord
2. **Navigate to a Project:**
 - Select the project named **Project Alpha** from the list of projects on the dashboard.
3. **Add Team Members:**
 - Click on the 'Task Lisk' button.
 - Click on the dropdown next to the task name
 - Click on 'edit task' button
 - Select **team_member1** from the user list.
 - Click 'submit'.
 - Verify that **team_member1** is now listed under the project team members.
4. **Remove Team Members:**
 - Click on the 'Task Lisk' button.
 - Click on the dropdown next to the task name
 - Click on 'edit task' button
 - deelect **team_member1** from the user list.
 - Click 'submit'.
 - Verify that **team_member1** is no longer listed under the project team members.

Expected Outcome:

Project Navigation: The user is able to navigate to `Project Alpha`.

Add Team Member: `team_member1` is successfully added to the project and appears in the team members list.

Remove Team Member: `team_member1` is successfully removed from the project and no longer appears in the team members list.

Pass/Fail Criteria:

Pass: All expected outcomes are met without any errors. Team members can be added and removed both through the UI without any issues.

Fail: Any of the expected outcomes are not met or an error occurs.

Result: Fail

Comments: Feature moved to backlog

Scenario: Real-Time Overview of Project Status During Group Calls (Pass/Fail)

User Story: As a team member, I want a real-time overview of our project's status during group calls, so we can know how our project is progressing.

Steps:

1. **Launch the Project Management App:**
 - Open the activity on Discord.
2. **Start a Group Call:**
 - Initiate a group call within the Project Management Discord channel.
3. **Open Project Dashboard:**
 - Select the project named `Project Alpha` from the list of projects on the dashboard.
4. **View Real-Time Updates:**
 - Verify that the dashboard displays real-time updates of tasks including their current status (to do, in progress, in review, done).
 - Ensure that any updates made to tasks by team members are reflected in real-time on the dashboard during the call.

- Check that task progress bars, assigned members, and deadlines are up to date and synchronized.
- 5. **Interacting with the Dashboard:**
 - Click on a task to view detailed information such as task description, assigned members, due dates, and comments.
 - Update the status of a task and verify that the change is immediately reflected on the dashboard for all team members on the call.

Expected Outcome:

- **Group Call Initiation:** The group call is successfully started within the Discord channel.
- **Project Dashboard:** The dashboard displays real-time updates of tasks, showing current statuses, progress bars, assigned members, and deadlines.
- **Real-Time Synchronization:** Any updates made to tasks are immediately reflected on the dashboard during the group call.
- **Detailed Task Information:** Clicking on a task provides detailed information, and any changes to task status are updated in real-time for all team members.

Pass/Fail Criteria:

Pass: All expected outcomes are met without any errors. The real-time overview of the project's status is accurate and synchronized during the group call.

Fail: Any of the expected outcomes are not met or an error occurs.

Result: Pass

Comments: /

Scenario: Access and Interact with a Card View of Ordered Tasks on Discord (Pass/Fail)

User Story: As a team member, I want to access a card view of ordered tasks within our project on Discord, allowing me to quickly see task titles, assigned members, and deadlines in a single glance. This view should allow for dragging and dropping cards to update task statuses or priorities. This will help me manage workloads and visualize upcoming deadlines.

Steps:

1. **Launch the Project Management App:**
 - o Open the activity on Discord.

2. **Navigate to a Project:**
 - Select the project named **Project Beta** from the list of projects on the dashboard.
3. **Access Card View:**
 - Click on the 'Board' button to view tasks in a card layout.
4. **View Task Information:**
 - Verify that each card displays the task title, assigned members, and deadlines.
5. **Interact with Cards:**
 - Drag and drop a card to a different status column (e.g., from 'To Do' to 'In Progress').
 - Verify that the task status is updated correctly in the system.
 - Drag and drop a card to reorder tasks by priority.
 - Verify that the new order is saved and reflected in the card view.
6. **Verify Real-Time Updates:**
 - Ensure that any changes made to the cards are reflected in real-time for all team members viewing the card view.

Expected Outcome:

- **Project Navigation:** The user is able to navigate to **Project Beta**.
- **Card View Display:** The card view displays task titles, assigned members, and deadlines correctly.
- **Task Interaction:** Dragging and dropping cards updates task statuses and priorities accurately.
- **Real-Time Updates:** Changes to the card view are reflected in real-time for all team members.

Pass/Fail Criteria:

- **Pass:** All expected outcomes are met without any errors. The card view is functional, and interactions with the cards update the system accurately.
- **Fail:** Any of the expected outcomes are not met or an error occurs.

Result: Pass

Comments: /

Scenario: Receive Notifications for Task Updates, Start, and Completion (Pass/Fail)

User Story: As a team, we want to receive notifications when tasks are updated, started, or completed, so we can stay informed about project progress without constant manual checks.

Steps:

1. **Launch the Project Management App:**
 - Open the activity on Discord.
2. **Navigate to a Project:**
 - Select the project named **Project Alpha** from the list of projects on the dashboard.
3. **Enable Notifications:**
 - Ensure that the notification settings are enabled for task updates, starts, and completions.
4. **Update a Task:**
 - Navigate to a task named **Task 1**.
 - Change the status of **Task 1** to **In Progress**.
5. **Verify Notification for Task Update:**
 - Check the Discord notification channel to see if a notification was received for the status update of **Task 1**.
6. **Start a Task:**
 - Navigate to a task named **Task 2**.
 - Change the status of **Task 2** to **Started**.
7. **Verify Notification for Task Start:**
 - Check the Discord notification channel to see if a notification was received for the start of **Task 2**.
8. **Complete a Task:**
 - Navigate to a task named **Task 3**.
 - Change the status of **Task 3** to **Completed**.
9. **Verify Notification for Task Completion:**
 - Check the Discord notification channel to see if a notification was received for the completion of **Task 3**.

Expected Outcome:

- **Login Verification:** The user is successfully logged in and redirected to the dashboard.
- **Project Navigation:** The user is able to navigate to **Project Alpha**.
- **Notification Settings:** Notification settings are enabled for task updates, starts, and completions.
- **Task Update Notification:** A notification is received for the status update of **Task 1**.
- **Task Start Notification:** A notification is received for the start of **Task 2**.
- **Task Completion Notification:** A notification is received for the completion of **Task 3**.

Pass/Fail Criteria:

- **Pass:** All expected outcomes are met without any errors. Notifications for task updates starts, and completions are received accurately.

- **Fail:** Any of the expected outcomes are not met or an error occurs.

Result: Pass

Comments: /

Scenario: Access and Interact with a Stacked List View of Ordered Tasks on Discord (Pass/Fail)

User Story: As a team member, I want to access a stacked list view of ordered tasks within our project on Discord, allowing me to quickly see task titles, assigned members, and deadlines in a single glance. This view should enable me to sort and filter tasks by different criteria (due date, status, etc.) and should order tasks with users not on call at the bottom. This will help me manage workloads and help visualize upcoming deadlines.

Steps:

1. **Launch the Project Management App:**
 - Open the activity on Discord.
2. **Navigate to a Project:**
 - Select the project named **Project Alpha** from the list of projects on the dashboard.
3. **Access Stacked List View:**
 - Click on the 'List View' button to view tasks in a stacked layout.
4. **View Task Information:**
 - Verify that each task displays the title, assigned members, and deadlines.
5. **Sort and Filter Tasks:**
 - Sort tasks by due date and verify the order is correct.
 - Sort tasks by status (to do, in progress, in review, done) and verify the order is correct.
 - Filter tasks to show only tasks with a specific status (e.g., in progress).
 - Verify that tasks with users not on the call are ordered at the bottom of the list.
6. **Interact with Tasks:**
 - Click on a task to view detailed information such as task description, assigned members, due dates, and comments.
 - Update the status of a task and verify that the change is immediately reflected in the sorted and filtered task list.

Expected Outcome:

- **Project Navigation:** The user is able to navigate to **Project Alpha**.

- **Stacked List View Display:** The stacked list view displays task titles, assigned members, and deadlines correctly.
- **Sorting and Filtering:** Tasks are correctly sorted by due date and status, and filtered by specific criteria. Tasks with users not on the call are ordered at the bottom.
- **Task Interaction:** Clicking on a task provides detailed information, and any changes to task status are updated and reflected in real-time.

Pass/Fail Criteria:

- **Pass:** All expected outcomes are met without any errors. The stacked list view is functional, and interactions with the tasks update the system accurately.
- **Fail:** Any of the expected outcomes are not met or an error occurs.

Result: [Pass/Fail]

Comments: [Any additional comments or observations]
