Scrum Manager Project

Full Stack Development - Immersive Program SDGKU

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# PROJECT IDEA

Scrum Manager is asoftware application used for issue tracking and project management.

The system permits to users create projects, sprints, task, subtask. The Scrum Manager project can be used for the following purposes:

* Task Management
* Project Management
* Scrum Agile Methodology

# FUNCTIONAL REQUIREMENTS

1. The user must be able to register an account to the application
   1. The user must be able to insert his/her email
   2. The user must be able to insert his/her password
      1. The user must be able to confirm his/her password
   3. The user must be able to insert his/her full name
2. The user must be able to login to the application
   1. The user must be able to insert his/her email
   2. The user must be able to insert his/her password
3. The user must be able to log out to the application
4. The user must be able to create a project in the application
   1. The user must be able to insert project’s name
5. The user must be able to create issues in the application
   1. The user must be able to select the project name
   2. The user must be able to select the issue type
      1. The user must be able to classify the issues in the project
         1. The user must be able to create an Epic
         2. The user must be able to create a Story
         3. The user must be able to create a Bug
         4. The user must be able to create a Task
   3. The user must be able to create a Sub-Task
   4. The user must be able to insert the summary
   5. The user must be able to insert the description
   6. The user must be able to insert a label
   7. The user must be able to select a sprint
6. The user must be able to check the issue information
7. The user must be able to change task status in the workflow
   1. The user must be able to change the status to “To do” in the workflow
   2. The user must be able to change the status to “In progress” in the workflow
   3. The user must be able to change the status to “Done” in the workflow
8. The user must be able to start sprint in the application
9. The user must be able to insert a Sprint Name
   1. The user must be able to insert Duration
   2. The user must be able to insert Start Date
   3. The user must be able to insert End Date
   4. The user must be able to insert Sprint Goal
10. The user must be able to edit sprint in the application
11. The user must be able to delete sprint in the application
12. The user must be able to complete sprint
    1. The user must be able to check completed issues
    2. The user must be able to check open issues
13. The user must be able to check the sprint backlog
14. The user must be able to check the board

# TEST CASES

**Requirement 1.0:** The user must be able to register an account by registering username, email, password.

1. Verify user entry by checking the database. Register user in the system.
2. Username is already registered. User can’t be register in the system.
3. Verify if a user can sign-up successfully with all the mandatory details.
4. All cases must pass/not pass 100% of the time. Repeat each test 100 times.

**Requirement 2.0:** The user must be able to login by inserting his username and password.

1. Both username and password are correct. User access the system
2. Username wrong. User can't access the system.
3. Password wrong. User can't access the system.
4. All cases must pass/not pass 100% of the time. Repeat each test 100 times.

**Requirement 3.0:** The user must be able to logout from the application.

1. Logout option should not be visible till the user is logged in.
2. After successful login, check whether clicking on Logout option, redirects you to the login page or not.
3. All cases must pass/not pass 100% of the time. Repeat each test 100 times.

**Requirement 4.0:** The user must be able to create a project in the application.

1. Project’s name should be a string. Verify if the user provides the type of data required. User can create a project.
2. Verify if doesn’t exist a project with the same name. User can’t create the project.
3. All cases must pass/not pass 100% of the time. Repeat each test 100 times.

**Requirement 5.0:** The user must be able to create issues in the application.

1. Project name, Issue type, Sub-Task, Summary, Description, Label, Sprint fields are correct. User can create an issue.
2. Field information provided is wrong or empty. User can’t create issue.
3. Project name isn’t a string value or is empty. User can't create issue.
4. Issue type isn’t a string value or is empty. User can’t create issue.
5. Sub-Task isn’t a string value or is empty. User can’t create issue.
6. Summary isn’t a string value or is empty. User can’t create issue.
7. Description isn’t a string value or is empty. User can’t create issue.
8. Label isn’t a string value or is empty. User can’t create issue.
9. Sprint isn’t a string value or is empty. User can’t create issue.
10. Verify if doesn’t exist an issue with the same name. User can’t create the issue.
11. All cases must pass/not pass 100% of the time. Repeat each test 100 times.

**Requirement 6.0:** The user must be able to check the issue information.

1. Issue is already registered. User can check the issue information.
2. All cases must pass/not pass 100% of the time. Repeat each test 100 times.

**Requirement 7.0:** The user must be able to change task status in the workflow.

1. Issues are already registered. User can change task status in the workflow.
2. All cases must pass/not pass 100% of the time. Repeat each test 100 times.

**Requirement 8.0:** The user must be able to start a sprint in the application.

1. Sprint name, Duration, Start date, End date, Sprint goal fields are correct. User can start the sprint.
2. Field information provided is wrong or empty. User can’t start the sprint.
3. Sprint name isn’t a string value or is empty. User can't start the sprint.
4. Duration isn’t a time value or is empty. User can’t start the sprint.
5. Start date isn’t a date value or is empty. User can’t start the sprint.
6. End date isn’t a date value or is empty. User can’t start the sprint.
7. Sprint goal isn’t a string value or is empty. User can’t start the sprint.
8. All cases must pass/not pass 100% of the time. Repeat each test 100 times.

**Requirement 9.0:** The user must be able to edit sprint in the application.

1. New field information provided is correct. User can edit the sprint.
2. New field information is wrong or empty. User can’t edit the sprint
3. All cases must pass/not pass 100% of the time. Repeat each test 100 times.

**Requirement 10.0:** The user must be able to delete sprint in the application.

1. A sprint has started and the user selects the delete sprint option. User can delete a sprint.
2. All cases must pass/not pass 100% of the time. Repeat each test 100 times.

**Requirement 11.0:** The user must be able to complete sprint in the application.

1. A sprint has started and the user selects the complete sprint option. User can complete the sprint.
2. All cases must pass/not pass 100% of the time. Repeat each test 100 times.

**Requirement 12.0:** The user must be able to check the sprint backlog.

1. Sprint has already started. User can check the sprint backlog.
2. There isn't a sprint started. User can’t check the sprint backlog.
3. All cases must pass/not pass 100% of the time. Repeat each test 100 times.

**Requirement 13.0:** The user must be able to check the board.

1. Issues have been already registered. User can check the board.
2. There aren't any issues registered. User can’t check the board.
3. All cases must pass/not pass 100% of the time. Repeat each test 100 times.

# TASK ANALYSIS

## LOG IN

1. Enter username
2. Enter password
3. Don't have an account? Register
4. Click on login button

## REGISTER

1. Enter username
2. Enter password
3. Enter password confirmation
4. Already have an account? Login
5. Click on register button

## LOGOUT

1. Click on logout button

## ADD TASK

1. Click on add task button
2. Enter user
3. Enter tittle
4. Enter description
5. Enter complete
6. Enter project name
7. Enter summary
8. Enter label
9. Enter sprint
10. Enter status
11. Click on submit button

## CHECK TASK DETAIL

1. Click on detail button
2. Check task details
   1. Check user
   2. Check tittle
   3. Check description
   4. Check complete
   5. Check project name
   6. Check summary
   7. Check label
   8. Check sprint
   9. Check status

## EDIT TASK

1. Click on edit button
2. Edit the tasks
   1. Edit user
   2. Edit tittle
   3. Edit description
   4. Edit complete
   5. Edit project name
   6. Edit summary
   7. Edit label
   8. Edit sprint
   9. Edit status
3. Click on submit button

## DELETE TASK

1. Click on delete button
2. Click on ok button to confirm the task to delete
3. Click on cancel button

## COMPLETE SPRINT

1. Click on complete sprint button
2. Click on cancel button

## EDIT SPRINT

1. Click on edit
2. Edit the sprint
   1. Edit sprint name
   2. Edit duration
   3. Edit start date
   4. Edit end date
   5. Edit sprint goal
3. Click on edit sprint

## DELETE SPRINT

1. Click on delete button
2. Click on ok button to confirm the sprint to delete
3. Click on cancel button

## CREATE SPRINT

1. Click on create sprint
2. Enter sprint name
3. Enter duration
4. Enter start date
5. Enter end date
6. Enter sprint goal
7. Click on start sprint button

# USER MODEL

Model UserProfile:

username

password

username: johncollins

password: \*\*\*\*\*\*\*

Add Task

Edit Task

Check Task Detail

Delete Task



Add Sub-Task

Add Sprint

Delete Sprint

Edit Sprint

# PERSONAS DERIVED FROM THE RESULTING USER MODEL.



John Collins

“Never stop learning because life never stops teaching”

Age: 28

Location: San Diego CA. United States.

Occupation: Software Developer

Income: 78k

Status: Single

By day, John is a developer. He is working as a developer of different web applications but he has a lot of responsibilities and something he is confusing about what are their task for each project.

Goals

Know his pending task for each project

Frustrations

Have a clear goal for each project in any sprint

Personality Traints

Learning

Self-taught person

Introvert

# USABILITY TASKS

|  |  |
| --- | --- |
| Research question | Where are the problem areas on creating a new task? |
| Scenario | Imagine that you need register a new task |
| Task | Starting on the login page, once you have logged in you can see all the tasks registered, then you have a button that says add task, after pressing this button a form appears, and finally you need to press submit to register the task. |
| Inputs (if needed) | User: odasys pass: taskmanager |
| Steps | 1. Enter username 2. Enter password 3. Press the login button 4. After login, press the button add task 5. Field the form 6. Press submit button |
| Success criteria | The new task should be register |

**Task 1:** Register a new task

**Task 2:** Register a new sprint

|  |  |
| --- | --- |
| Research question | Where are the problem areas on creating a new sprint? |
| Scenario | Imagine that you need register a new sprint |
| Task | Starting on the login page, once you have logged in you can see all the tasks registered, the you don’t have any option to register a new sprint but we have a menu, in the next option of the menu you have the option backlog, in this view exists a button create sprint if I press the button a field appears, finally after pressing start sprint a new sprint is register |
| Inputs (if needed) | User: odasys pass: taskmanager |
| Steps | 1. Enter username 2. Enter password 3. Press the login button 4. After login, press the burger menu backlog 5. Press the button create sprint 6. Field the form 7. Press the button start sprint |
| Success criteria | The new sprint should be register |

**Task 3:** Edit a task

|  |  |
| --- | --- |
| Research question | Where are the problem areas on edit a task? |
| Scenario | Imagine that you need edit the information for a task |
| Task | Starting on the login page, once you have logged in you can see all the tasks registered, then you have a button that says edit, after pressing this button a form appears, and finally you need to press submit to save the changes. |
| Inputs (if needed) | User: odasys pass: taskmanager |
| Steps | 1. Enter username 2. Enter password 3. Press the login button 4. After login, press the button edit 5. Field the form 6. Press submit button |
| Success criteria | A task information is edited. |

**Task 4:** Create a sprint

|  |  |
| --- | --- |
| Research question | Where are the problem areas on creating a new sprint? |
| Scenario | Imagine that you need register a new sprint |
| Task | Starting on the login page, once you have logged in you can see all the tasks registered, the you don’t have any option to register a new sprint but we have a menu, in the next option of the menu you have the option backlog, in this view exists a button edit in each sprint if I press the button a field appears, finally after pressing submit a new sprint is register |
| Inputs (if needed) | User: odasys pass: taskmanager |
| Steps | 1. Enter username 2. Enter password 3. Press the login button 4. After login, press the burger menu backlog 5. Press the button create sprint 6. Field the form 7. Press the button start sprint |
| Success criteria | The sprint should be edited |

**Task 5:** Delete a task

|  |  |
| --- | --- |
| Research question | Where are the problem areas on delete a task? |
| Scenario | Imagine that you need delete a task |
| Task | Starting on the login page, once you have logged in you can see all the tasks registered, then you have a button that says delete, after pressing this button a confirmation message appears, and finally you need to press ok to delete the task. |
| Inputs (if needed) | User: odasys pass: taskmanager |
| Steps | 1. Enter username 2. Enter password 3. Press the login button 4. After login, press the button delete 5. Press ok |
| Success criteria | A task should be deleted. |

**Task 6:** Delete a sprint

|  |  |
| --- | --- |
| Research question | Where are the problem areas on delete a sprint? |
| Scenario | Imagine that you need to delete a sprint |
| Task | Starting on the login page, once you have logged in you can see all the tasks registered, the you don’t have any option to register a new sprint but we have a menu, in the next option of the menu you have the option backlog, in this view exists a button delete in each sprint if I press the button a message appears, finally after pressing ok the sprint should be deleted. |
| Inputs (if needed) | User: odasys pass: taskmanager |
| Steps | 1. Enter username 2. Enter password 3. Press the login button 4. After login, press the burger menu backlog 5. Press the button delete 6. Press the button ok |
| Success criteria | The sprint should be deleted |

**Task 7:** Check task details

**Task 8:** Check sprint details

|  |  |
| --- | --- |
| Research question | Where are the problem areas on checking a task? |
| Scenario | Imagine that you need check a task detail |
| Task | Starting on the login page, once you have logged in you can see all the tasks registered, then you have a button that says details, after pressing this button all the task information appears |
| Inputs (if needed) | User: odasys pass: taskmanager |
| Steps | 1. Enter username 2. Enter password 3. Press the login button 4. After login, press the button detail |
| Success criteria | A task should be deleted. |

|  |  |
| --- | --- |
| Research question | Where are the problem areas on checking a sprint? |
| Scenario | Imagine that you need to check a sprint detail |
| Task | Starting on the login page, once you have logged in you can see all the tasks registered, the you don’t have any option to register a new sprint but we have a menu, in the next option of the menu you have the option backlog, in this view exists a button delete in each sprint if I press the button a message appears, finally after pressing ok the sprint should be deleted. |
| Inputs (if needed) | User: odasys pass: taskmanager |
| Steps | 1. Enter username 2. Enter password 3. Press the login button 4. After login, press the burger menu backlog 5. Press the button detail |
| Success criteria | The sprint should be deleted |

# PRODUCT BACKLOG

|  |  |
| --- | --- |
| Backlog Item | Estimate |
| As a user I must be able to register an account to use the application | **19** |
| As a user I need to be able to login to my account from any page on the website | **13** |
| As a user I need to be able to logout to my account from any page on the website | **10** |
| As a user I must be able to create a project in the application | **17** |
| As a user I must be able to create issues in the application | **19** |
| As a user I must be able to check the issue information | **9** |
| As a user I must be able to change task status in the workflow | **8** |
| As a user I must be able to start a sprint in the application | **21** |
| As a user I must be able to edit sprint in the application | **16** |
| As a user I must be able to delete sprint in the application | **11** |
| As a user I must be able to complete sprint in the application | **11** |
| As a user I must be able to check the sprint backlog | **15** |
| As a user I must be able to check the board | **16** |

# SPRINT BACKLOGS

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SPRINT 1 |  | |  | |  | |  | |  | |  | |  | |  |  |  |  | |  | |  | |  |
| User Story | Tasks | | Owner | | Status | | Estimated effort | | Week 1 | | | | | | | | Week 2 | | | | | | | |
| Day 1 | | Day 2 | | Day 3 | | Day 4 | Day 5 | Day 1 | Day 2 | | Day 3 | | Day 4 | | Day 5 |
| As a user I must be able to register an account to use the application | Create a view/template to the register an account | | Dev 1 | | To Do | | 19 | | 3 | | 0 | | 0 | | 0 | 0 | 0 | 0 | | 0 | | 0 | | 0 |
| Create a user model/database | | Dev 1 | | To Do | | 0 | | 2 | | 2 | | 0 | 0 | 0 | 0 | | 0 | | 0 | | 0 |
| Business logic | | Dev 1 | | To Do | | 0 | | 0 | | 0 | | 3 | 2 | 0 | 0 | | 0 | | 0 | | 0 |
| Add CSS style | | Dev 1 | | To Do | | 0 | | 0 | | 0 | | 0 | 1 | 2 | 0 | | 0 | | 0 | | 0 |
| Code unit test for the TC001 | | Dev 1 / Dev 2 | | To Do | | 0 | | 0 | | 0 | | 0 | 0 | 0 | 1 | | 1 | | 0 | | 0 |
| Testing. Check test cases TC001 | | Dev 1 / Dev 2 | | To Do | | 0 | | 0 | | 0 | | 0 | 0 | 0 | 0 | | 0 | | 1 | | 1 |
| As a user I need to be able to login to my account from any page on the website | Create a view/template to the login page | | Dev 2 | | To Do | | 13 | | 3 | | 0 | | 0 | | 0 | 0 | 0 | 0 | | 0 | | 0 | | 0 |
| Business logic | | Dev 2 | | To Do | | 0 | | 2 | | 2 | | 0 | 0 | 0 | 0 | | 0 | | 0 | | 0 |
| Add CSS style | | Dev 2 | | To Do | | 0 | | 0 | | 0 | | 1 | 1 | 0 | 0 | | 0 | | 0 | | 0 |
| Code unit test for the TC002 | | Dev 1/ Dev 2 | | To Do | | 0 | | 0 | | 0 | | 0 | 0 | 0 | 1 | | 1 | | 0 | | 0 |
| Testing. Check test cases TC002 | | Dev 1 / Dev 2 | | To Do | | 0 | | 0 | | 0 | | 0 | 0 | 0 | 0 | | 0 | | 1 | | 1 |
| As a user I need to be able to logout to my account from any page on the website | Create a view/template to logout | | Dev 2 | | To Do | | 10 | | 0 | | 2 | | 0 | | 0 | 0 | 0 | 0 | | 0 | | 0 | | 0 |
| Business logic | | Dev 2 | | To Do | | 0 | | 0 | | 1 | | 1 | 0 | 0 | 0 | | 0 | | 0 | | 0 |
| Add CSS style | | Dev 2 | | To Do | | 0 | | 0 | | 0 | | 0 | 1 | 1 | 0 | | 0 | | 0 | | 0 |
| Code unit test for the TC003 | | Dev 1 / Dev 2 | | To Do | | 0 | | 0 | | 0 | | 0 | 0 | 0 | 1 | | 1 | | 0 | | 0 |
| Testing. Check test cases TC003 | | Dev 1 / Dev 2 | | To Do | | 0 | | 0 | | 0 | | 0 | 0 | 0 | 0 | | 0 | | 1 | | 1 |
|  |  | |  | |  | | 42 | | 6 | | 6 | | 5 | | 5 | 5 | 3 | 3 | | 3 | | 3 | | 3 |
| SPRINT 2 |  |  | |  | |  | |  | |  | |  | |  | |  |  |  |  | |  | |  | |
| User Story | Tasks | Owner | | Status | | Estimated effort | | Week 1 | | | | | | | | | Week 2 | | | | | | | |
| Day 1 | | Day 2 | | Day 3 | | Day 4 | | Day 5 | Day 1 | Day 2 | Day 3 | | Day 4 | | Day 5 | |
| As a user I must be able to create a project in the application | Create view/template to create a project | Dev 1 | | To Do | | 17 | | 3 | | 0 | | 0 | | 0 | | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| Create the project model/database | Dev 1 | | To Do | | 0 | | 2 | | 1 | | 0 | | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| Business logic | Dev 1 | | To Do | | 1 | | 1 | | 1 | | 0 | | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| Add CSS style | Dev 1 | | To Do | | 0 | | 0 | | 0 | | 0 | | 1 | 0 | 0 | 0 | | 0 | | 0 | |
| Code unit test for the TC004 | Dev 1 / Dev 2 | | To Do | | 0 | | 0 | | 1 | | 0 | | 0 | 0 | 1 | 1 | | 0 | | 0 | |
| Testing. Check test cases TC004 | Dev 1 / Dev 2 | | To Do | | 0 | | 0 | | 0 | | 0 | | 1 | 1 | 0 | 0 | | 1 | | 1 | |
| As a user I must be able to create issues in the application | Create view/template to register an issue | Dev 2 | | To Do | | 19 | | 3 | | 0 | | 0 | | 3 | | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| Create the issue model/database | Dev 2 | | To Do | | 0 | | 2 | | 1 | | 0 | | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| Business logic | Dev 2 | | To Do | | 0 | | 0 | | 1 | | 1 | | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| Add CSS style | Dev 2 | | To Do | | 0 | | 0 | | 0 | | 0 | | 1 | 0 | 0 | 0 | | 0 | | 0 | |
| Code unit test for the TC005 | Dev 1 / Dev 2 | | To Do | | 0 | | 0 | | 1 | | 0 | | 0 | 0 | 1 | 1 | | 0 | | 0 | |
| Testing. Check test cases TC005 | Dev 1 / Dev 2 | | To Do | | 0 | | 0 | | 0 | | 0 | | 1 | 1 | 0 | 0 | | 1 | | 1 | |
| As a user I must be able to check the issue information | Create view/template to check the issue description | Dev 1 | | To Do | | 9 | | 0 | | 1 | | 1 | | 0 | | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| Business logic | Dev 1 | | To Do | | 0 | | 1 | | 0 | | 1 | | 0 | 0 | 0 | 0 | | 0 | | 0 | |
| Add CSS style | Dev 1 | | To Do | | 0 | | 0 | | 0 | | 0 | | 0 | 1 | 0 | 0 | | 0 | | 0 | |
| Code unit test for the TC006 | Dev 1 / Dev 2 | | To Do | | 0 | | 0 | | 0 | | 0 | | 0 | 0 | 1 | 1 | | 0 | | 0 | |
| Testing. Check test cases TC006 | Dev 1 / Dev 2 | | To Do | | 0 | | 0 | | 0 | | 0 | | 0 | 0 | 0 | 0 | | 1 | | 1 | |
| As a user I must be able to change task status in the workflow | Business logic | Dev 2 | | To Do | | 8 | | 0 | | 0 | | 0 | | 1 | | 1 | 2 | 0 | 0 | | 0 | | 0 | |
|  |
|  |
|  |
| Code unit test for the TC007 | Dev 1 / Dev 2 | | To Do | | 0 | | 0 | | 0 | | 0 | | 0 | 0 | 1 | 1 | | 0 | | 0 | |  |
| Testing. Check test cases TC007 | Dev 1 / Dev 2 | | To Do | | 0 | | 0 | | 0 | | 0 | | 0 | 0 | 0 | 0 | | 1 | | 1 | |  |
|  |  |  | |  | | 53 | | 7 | | 7 | | 7 | | 6 | | 5 | 5 | 4 | 4 | | 4 | | 4 | |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SPRINT 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| User Story | Tasks | Owner | Status | Estimated effort | Week 1 | | | | | Week 2 | | | | |
| Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 |
| As a user I must be able to start a sprint in the application | Create view/template to create a sprint | Dev 1 | To Do | 21 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Create the sprint model/database | Dev 1 | To Do | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Business logic | Dev 1 | To Do | 0 | 0 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 0 |
| Add CSS style | Dev 1 | To Do | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 |
| Code unit test for the TC008 | Dev 1 / Dev 2 | To Do | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| Testing. Check test cases TC008 | Dev 1 / Dev 2 | To Do | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| As a user I must be able to edit sprint in the application | Create view/template to edit a sprint | Dev 2 | To Do | 16 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Business logic | Dev 2 | To Do | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Add CSS style | Dev 2 | To Do | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |
| Code unit test for the TC009 | Dev 1 / Dev 2 | To Do | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| Testing. Check test cases TC009 | Dev 1 / Dev 2 | To Do | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| As a user I must be able to delete sprint in the application | Create view/template to delete a sprint | Dev 2 | To Do | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Business logic | Dev 2 | To Do | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Add CSS style | Dev 1 | To Do | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| Code unit test for the test case TC010 | Dev 1 / Dev 2 | To Do | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| Testing. Check test cases TC010 | Dev 1 / Dev 2 | To Do | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
|  |  |  |  | 48 | 8 | 7 | 7 | 7 | 4 | 3 | 3 | 3 | 3 | 3 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SPRINT 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| User Story | Tasks | Owner | Status | Estimated effort | Week 1 | | | | | Week 2 | | | | |
| Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 |
| As a user I must be able to complete sprint in the application | Create view/template to complete a sprint | Dev 1 | To Do | 11 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Business logic | Dev 2 | To Do | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Add CSS style | Dev 1 | To Do | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| Code unit test for the test case TC011 | Dev 1 / Dev 2 | To Do | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| Testing. Check test cases TC011 | Dev 1 / Dev 2 | To Do | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| As a user I must be able to check the sprint backlog | Create view/template to check the sprint backlog | Dev 1 | To Do | 15 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Business logic | Dev 1 | To Do | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Add CSS style | Dev 1 | To Do | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| Code unit test for the test case TC012 | Dev 1 / Dev 2 | To Do | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| Testing. Check test cases TC012 | Dev 1 / Dev 2 | To Do | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| As a user I must be able to check the board | Create view/template to check the board | Dev 2 | To Do | 16 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Business logic | Dev 2 | To Do | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Add CSS style | Dev 2 | To Do | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 |
| Code unit test for the test case TC013 | Dev 1 / Dev 2 | To Do | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| Testing. Check test cases TC013 | Dev 1 / Dev 2 | To Do | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
|  |  |  |  | 42 | 7 | 5 | 6 | 5 | 4 | 3 | 3 | 3 | 3 | 3 |

**Duration of Sprints:** 2 Weeks

# SCRUM ARTIFACTS - BURNDOWN CHART

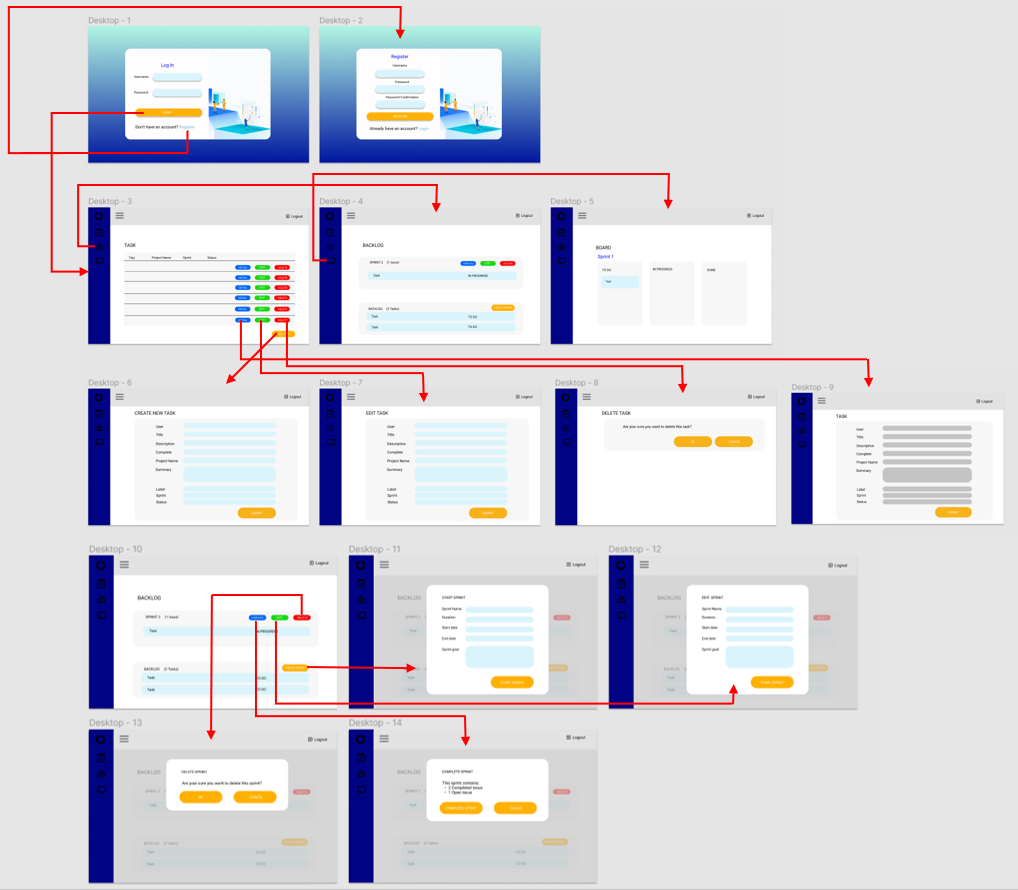
# SCRUM ARTIFACTS - SCRUM BOARD

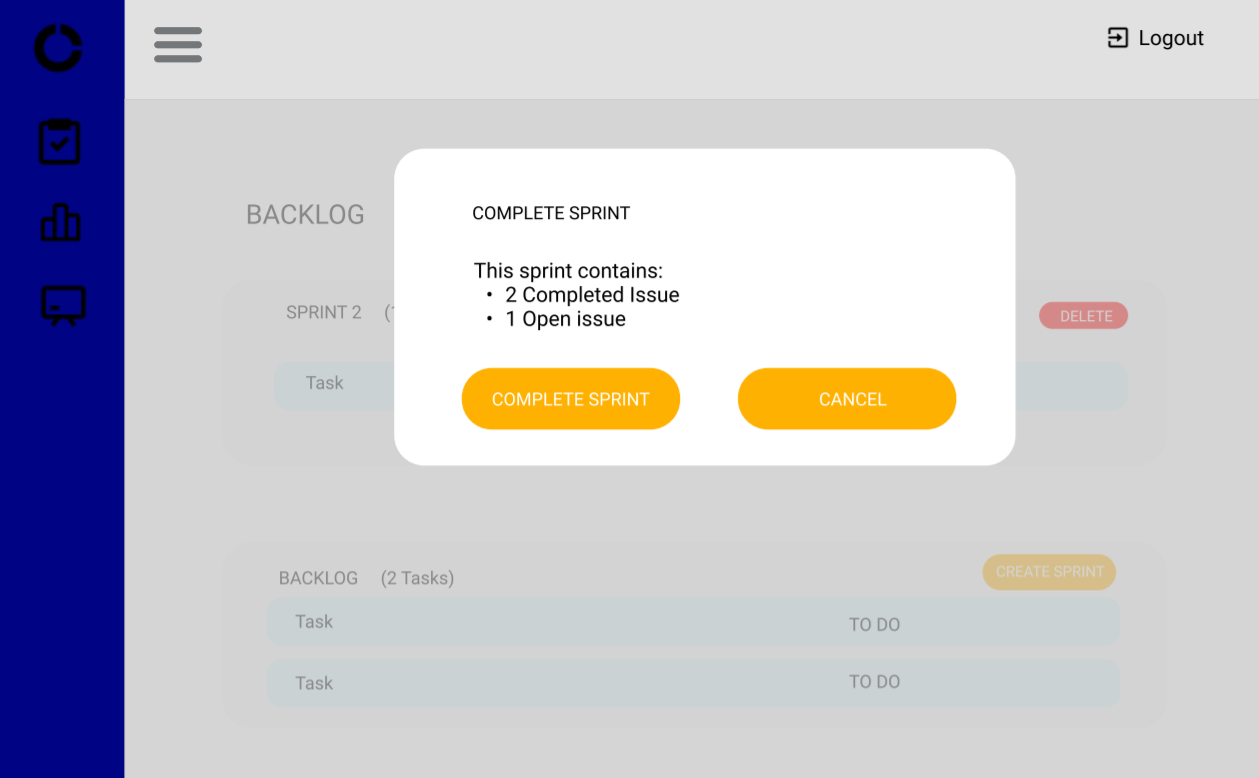
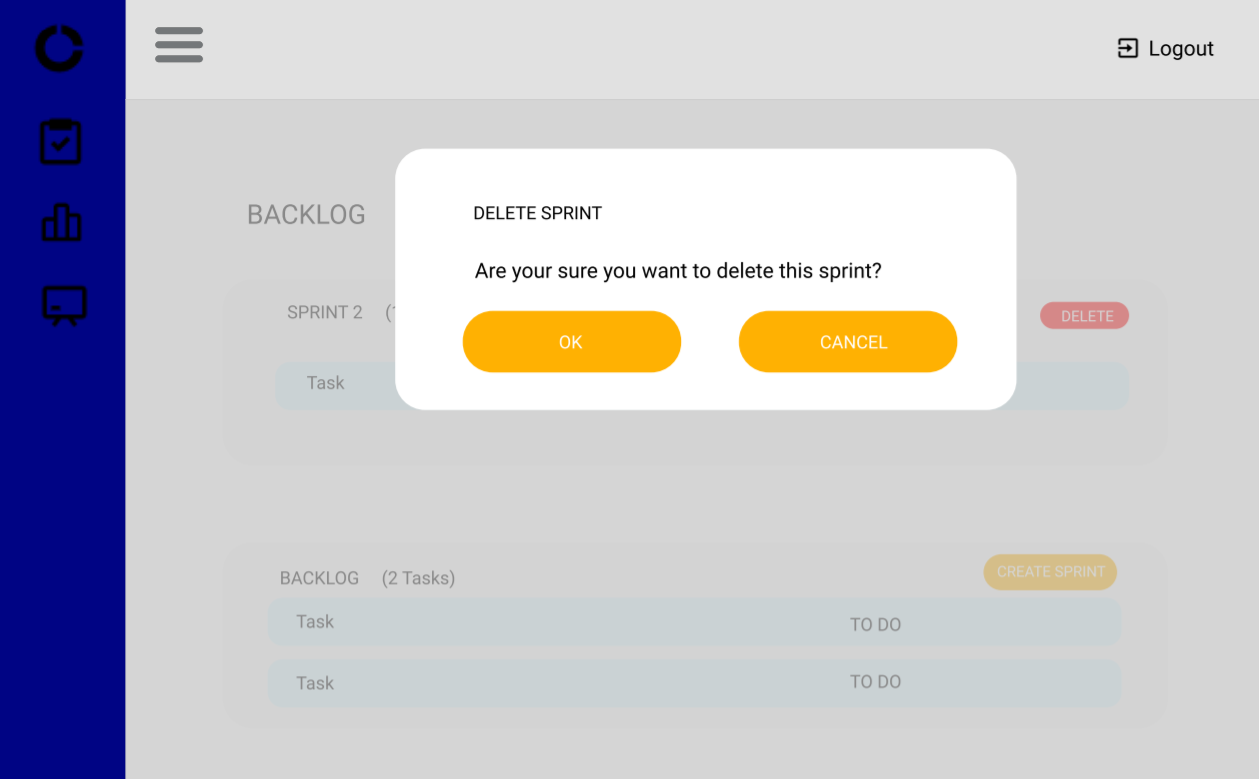
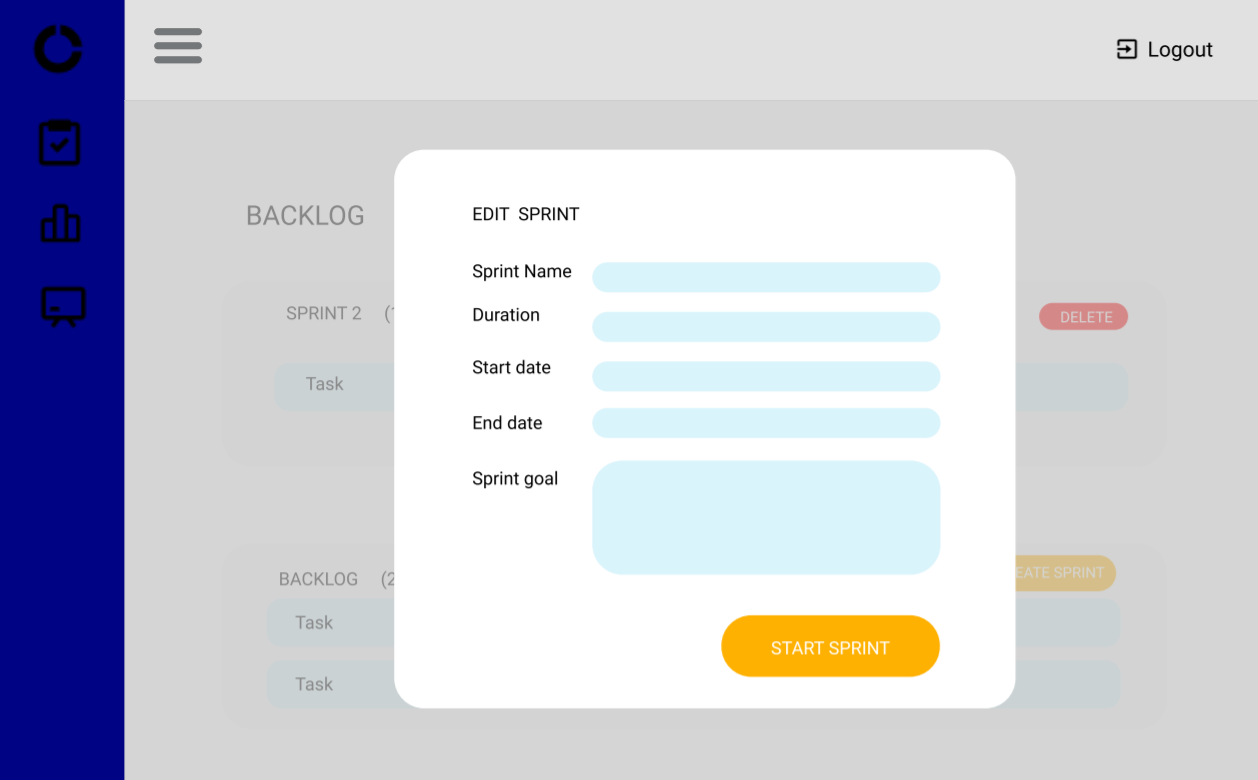
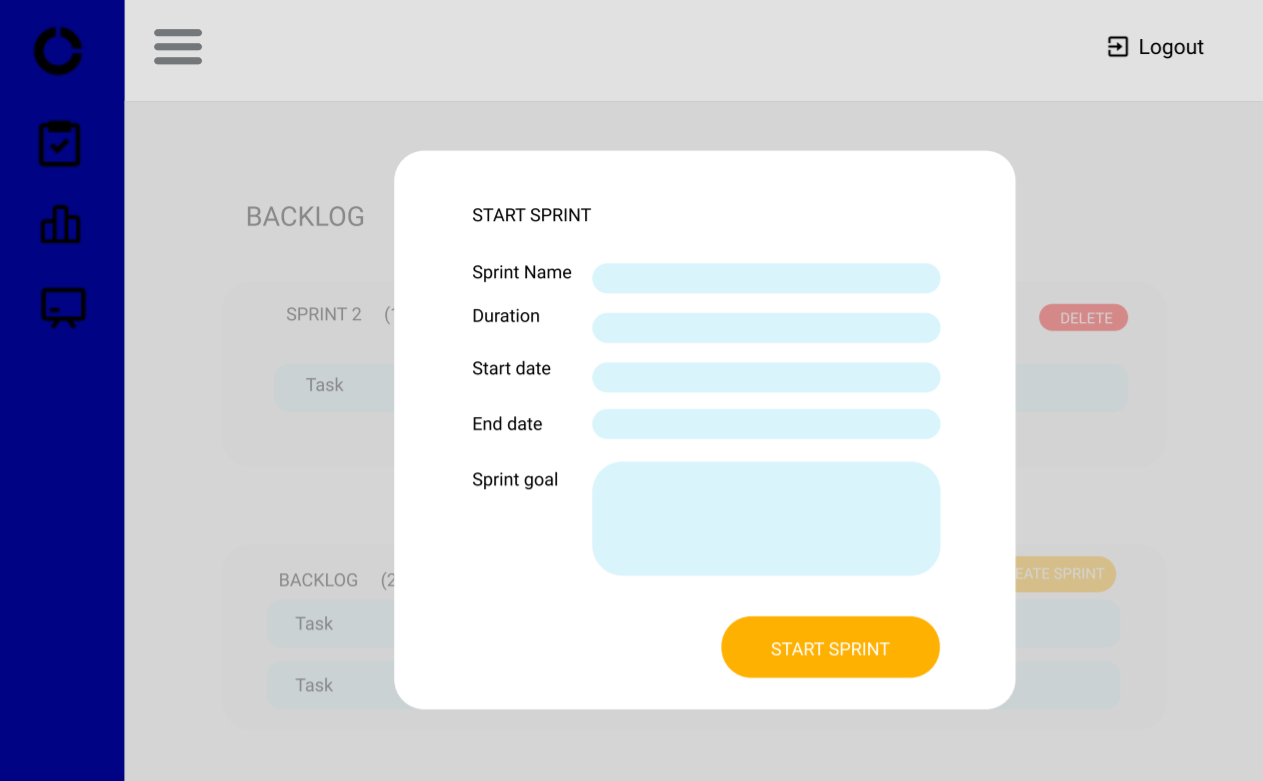
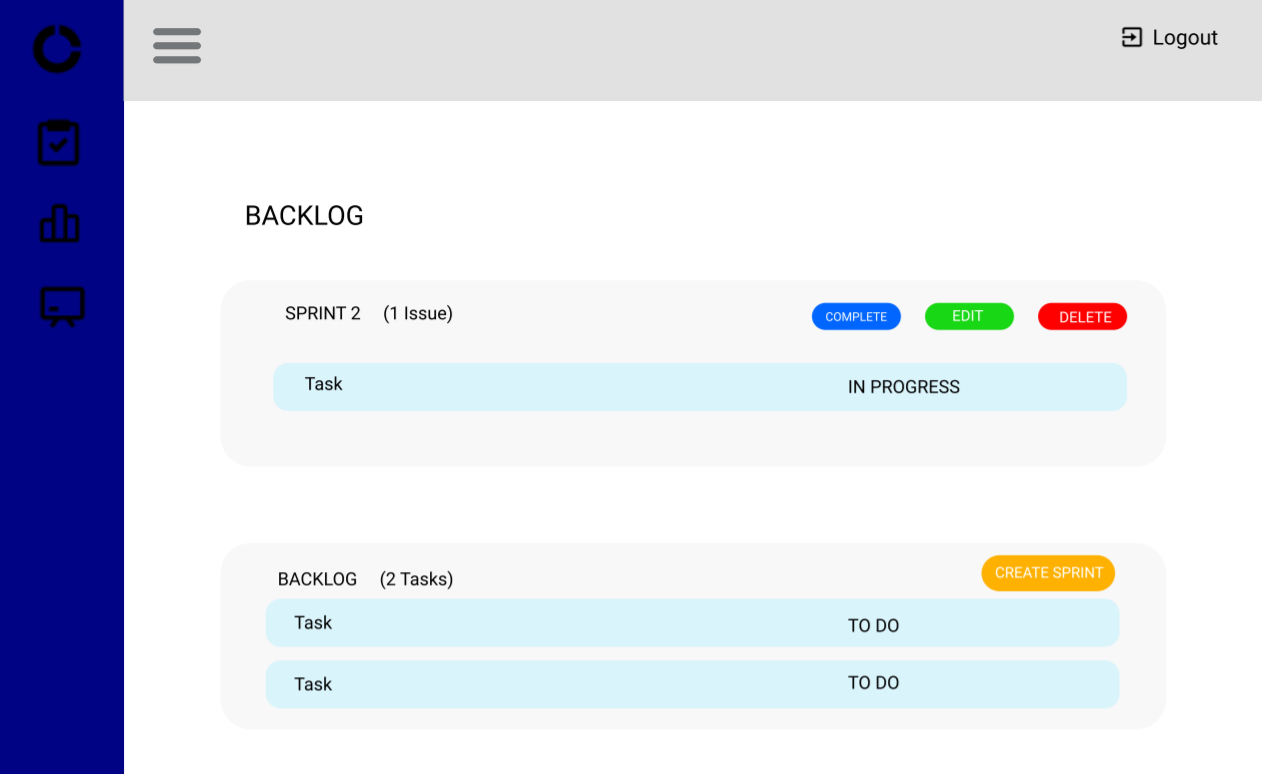
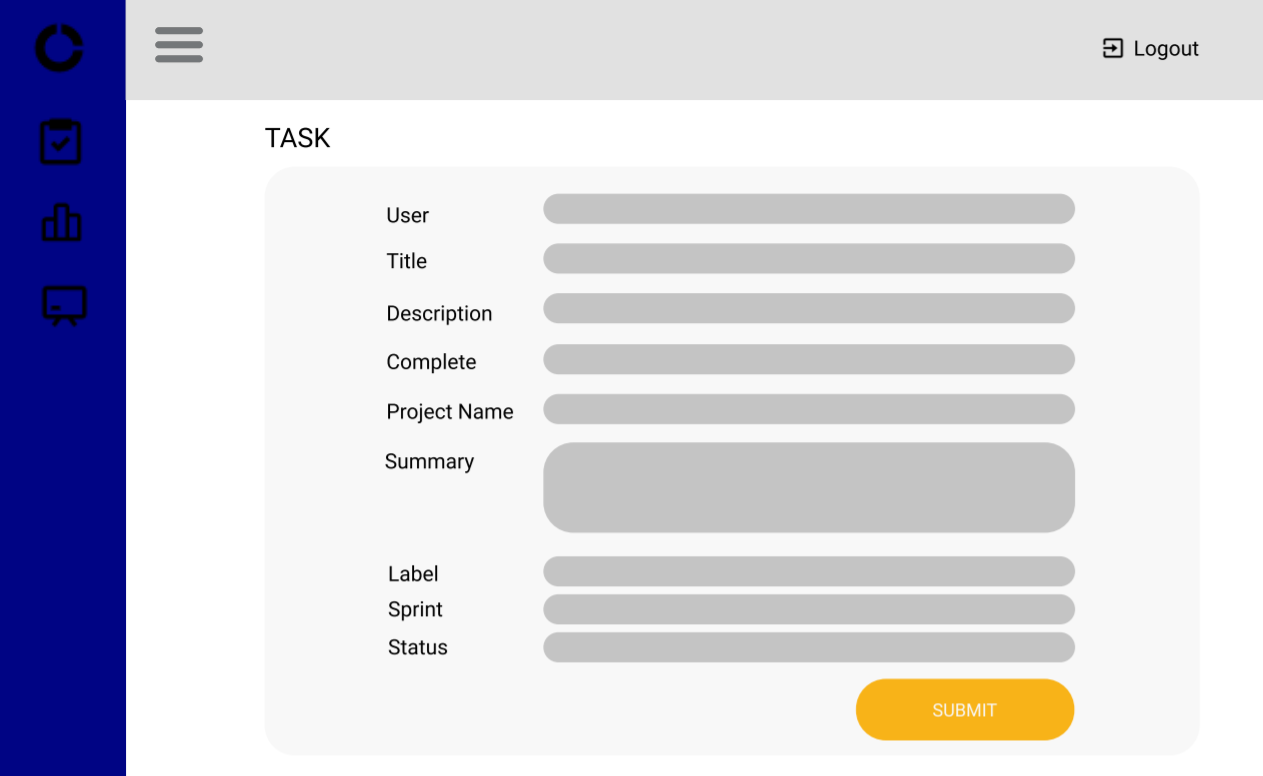
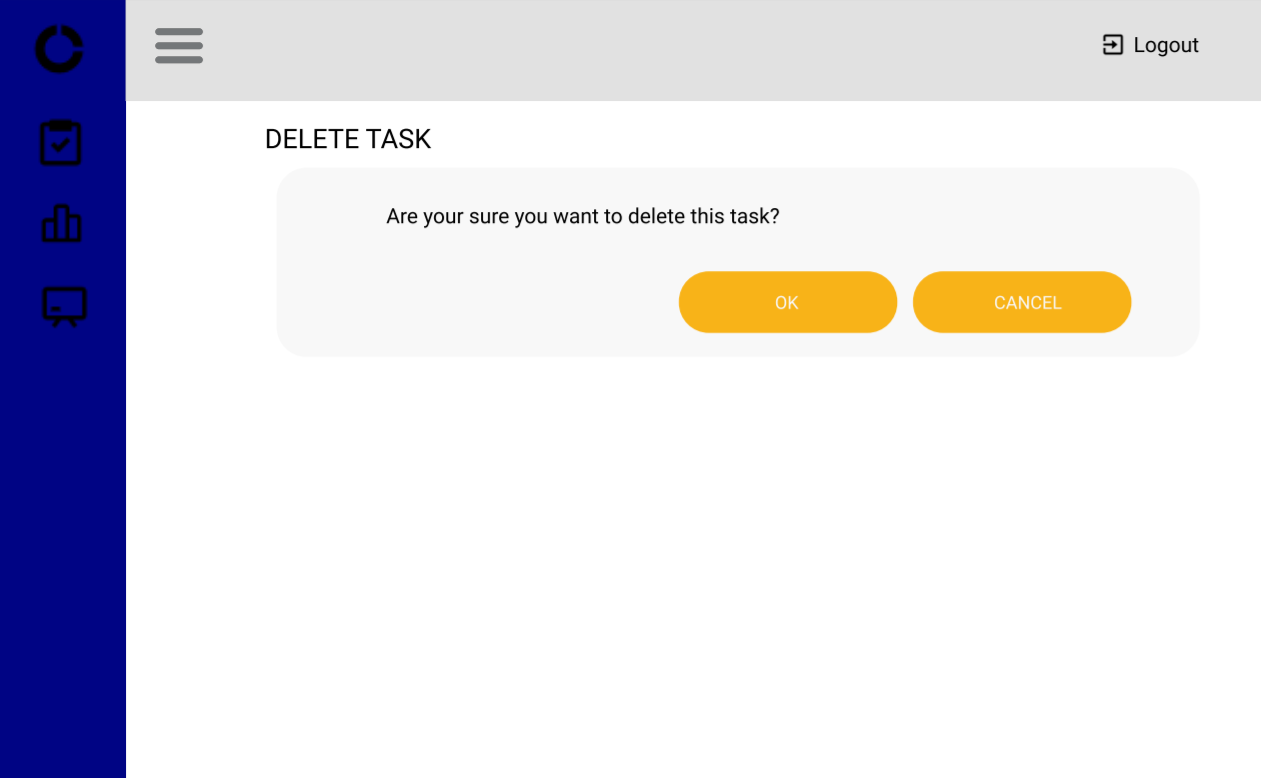
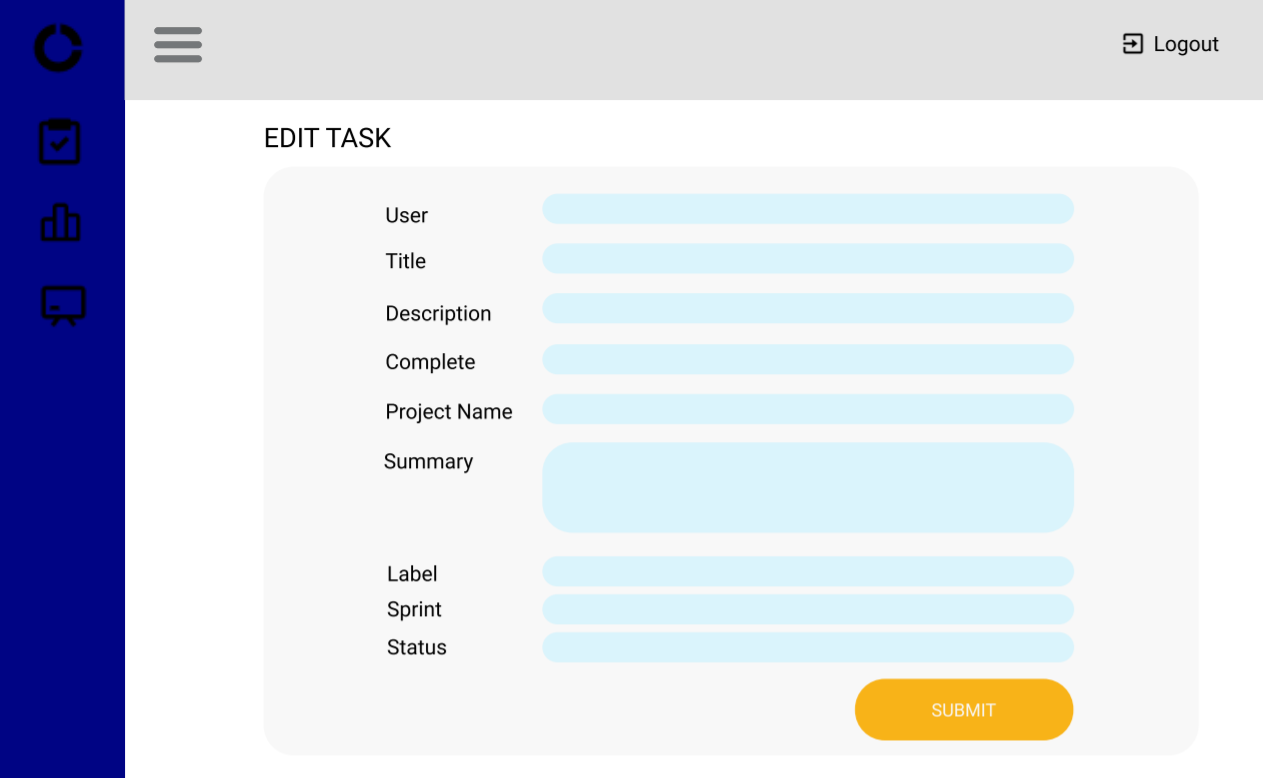
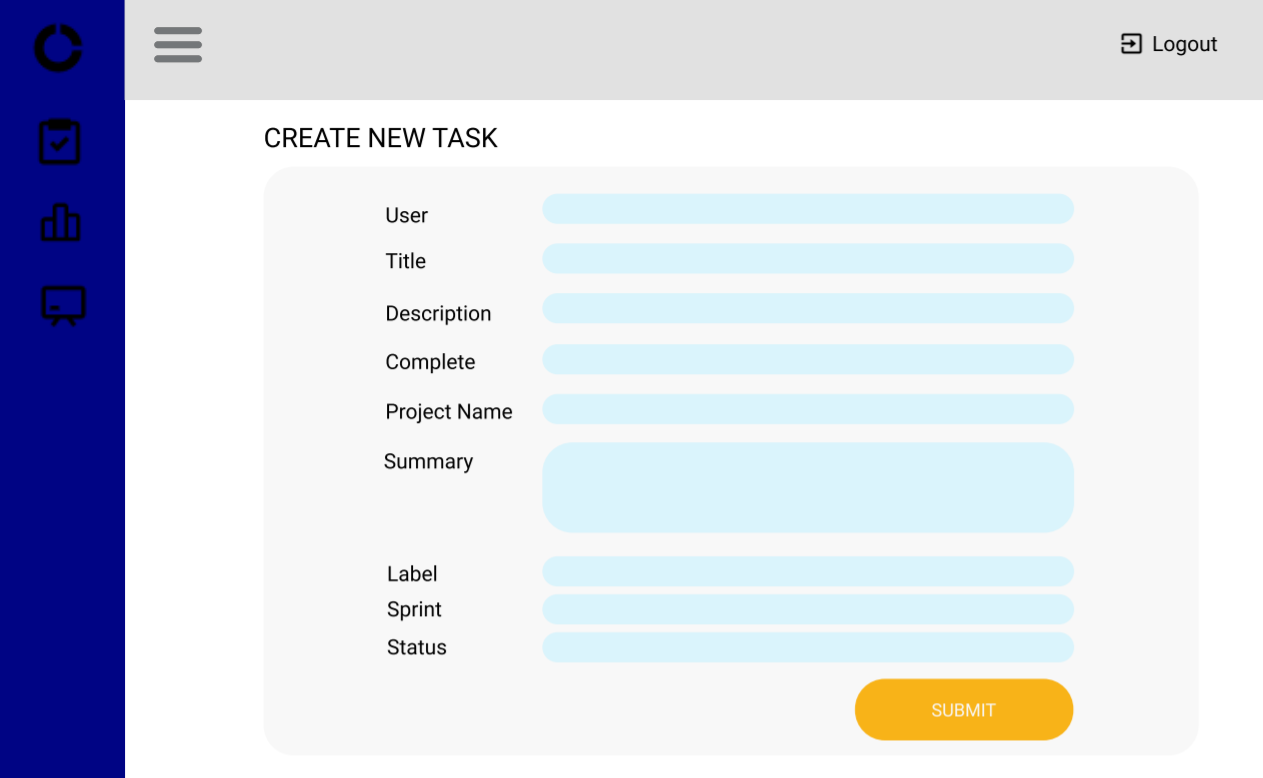
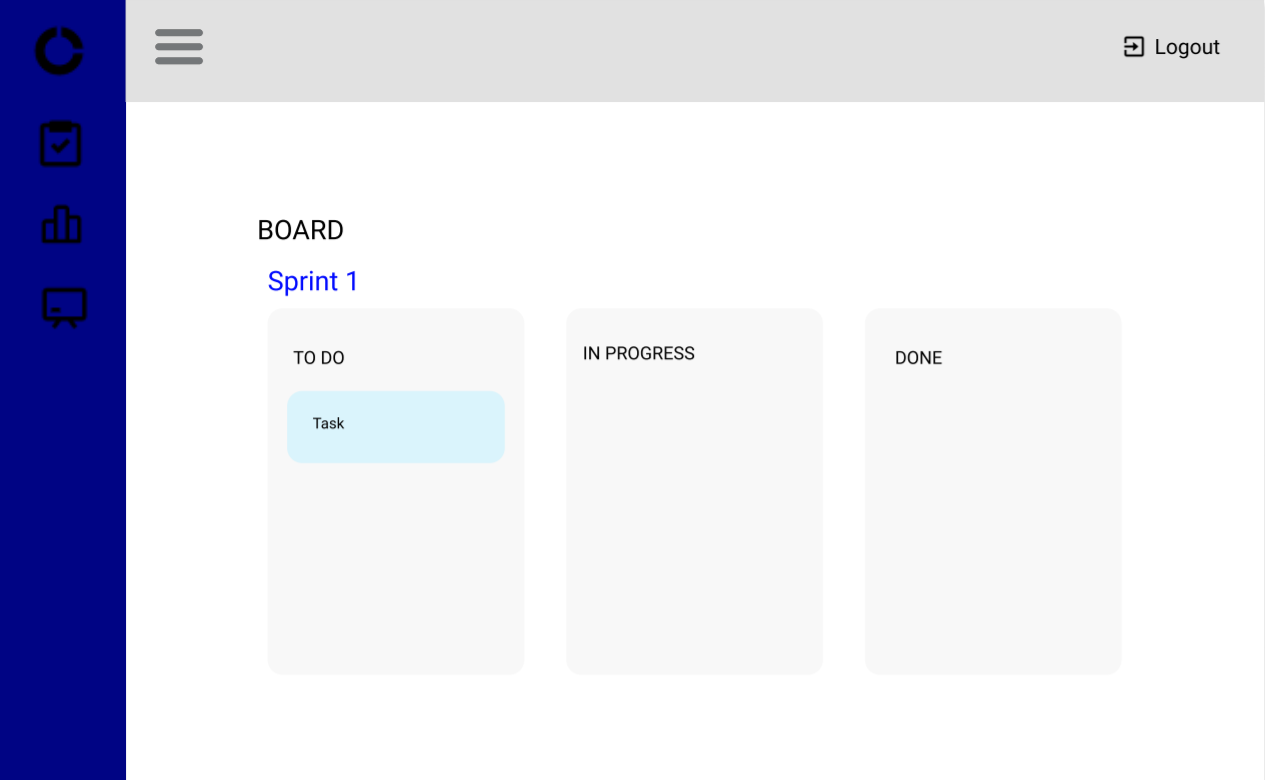
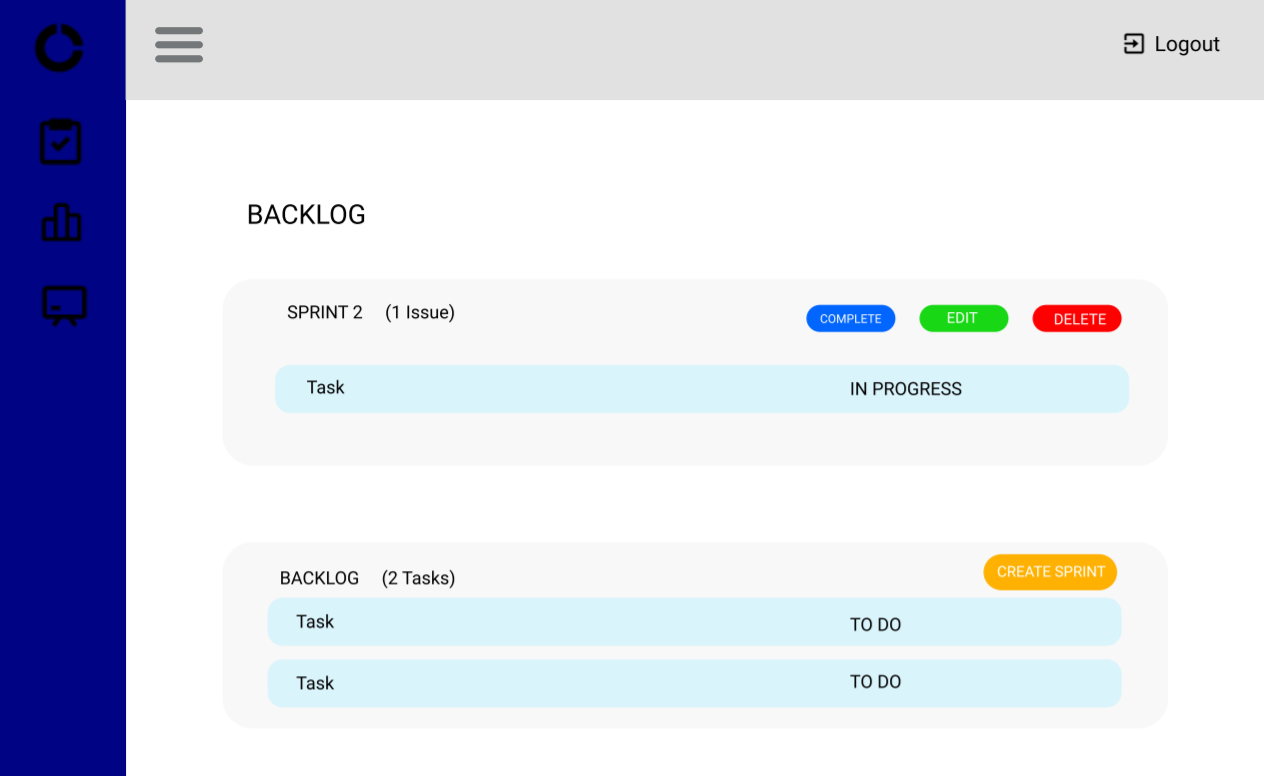
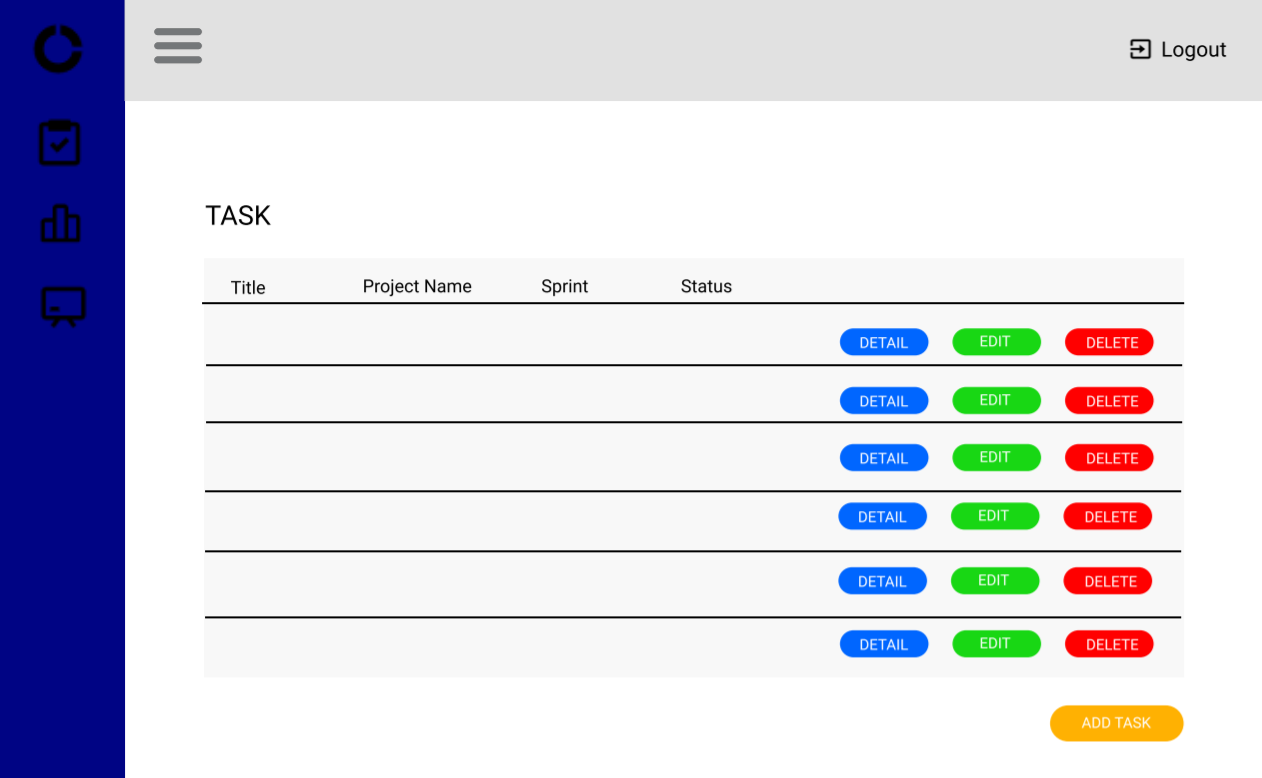
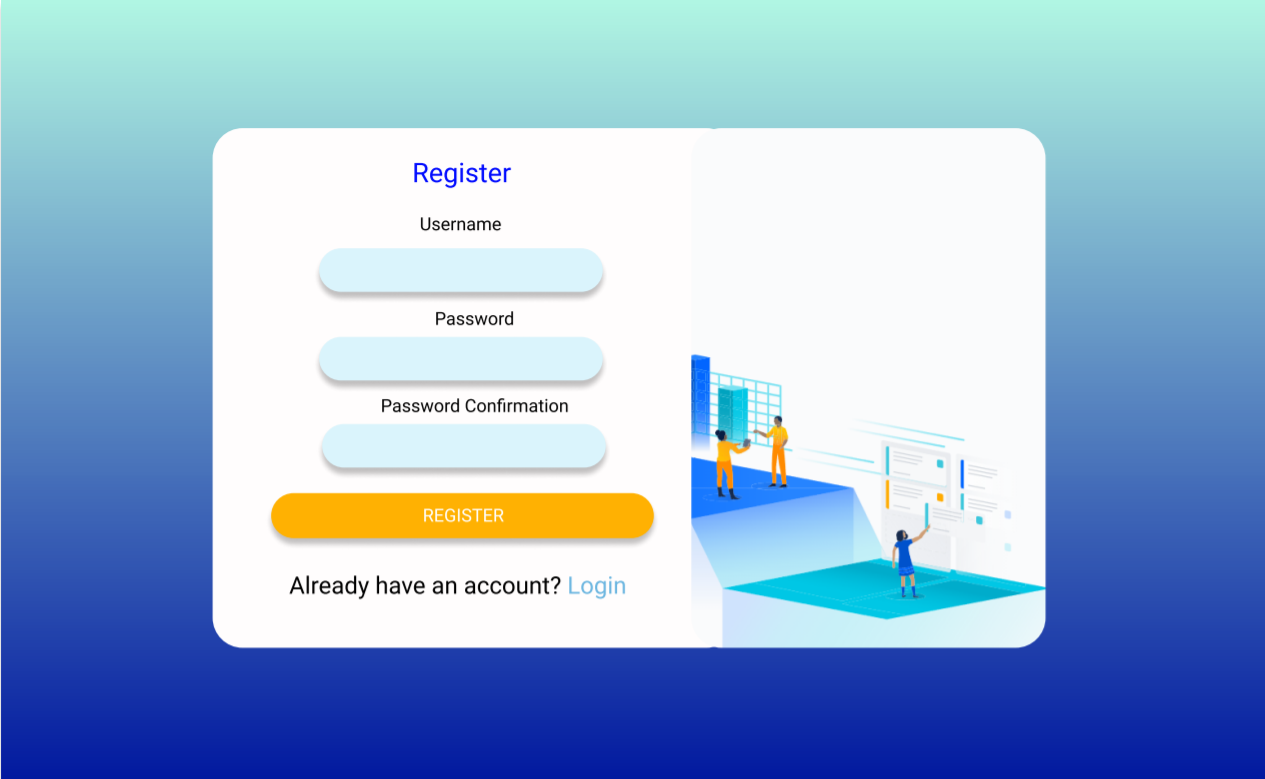
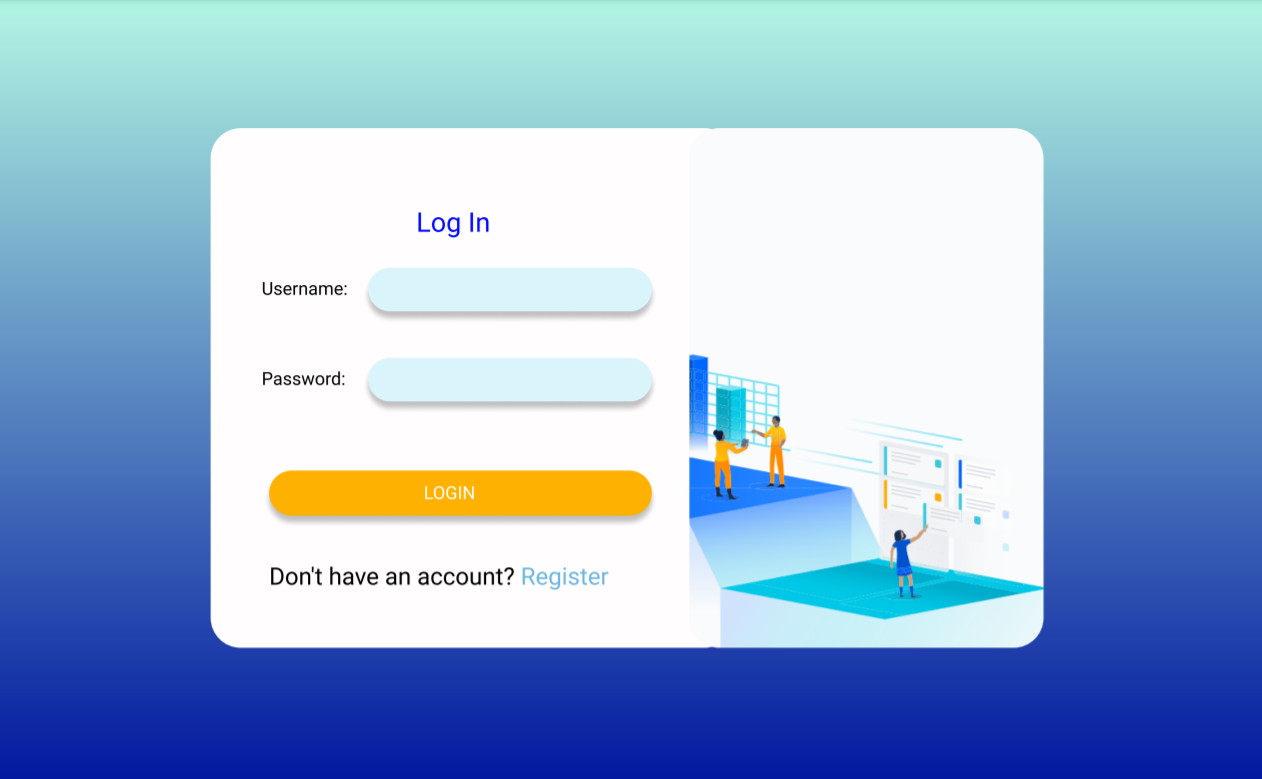
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sprint 1 | | | | | |
| Stories | To Do | In Progress | | Testing | Done |
| As a user I must be able to register an account to use the application |  |  | |  | Business logic  Add CSS style  Create a user model/database  Create a view/template to the register an account |
| As a user I need to be able to login to my account from any page on the website |  |  | |  | Add CSS style  Business logic  Create a view/template to the login page |
| As a user I need to be able to logout to my account from any page on the website |  |  | |  | Add CSS style  Create a view/template to logout  Business logic |
| Sprint 2 | | | | | |
| Stories | To Do | In Progress | Testing | | Done |
| As a user I must be able to create a project in the application | Business logic  Add CSS style |  |  | | Create the project model/database  Create view/template to create a project |
| As a user I must be able to create issues in the application |  | Add CSS style |  | | Create view/template to register an issue  Create the issue model/database  Business logic |
| As a user I must be able to check the issue information |  | Add CSS style |  | | Business logic  Create view/template to check the issue description |
| As a user I must be able to change task status in the workflow | Business logic |  |  | |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sprint 3 | | | | |
| Stories | To Do | In Progress | Testing | Done |
| As a user I must be able to start a sprint in the application |  | Business logic  Add CSS style |  | Create the sprint model/database  Create view/template to create a sprint |
| As a user I must be able to edit sprint in the application |  | Add CSS style |  | Create view/template to edit a sprint  Business logic |
| As a user I must be able to delete sprint in the application |  | Add CSS style |  | Business logic  Create view/template to delete a sprint |

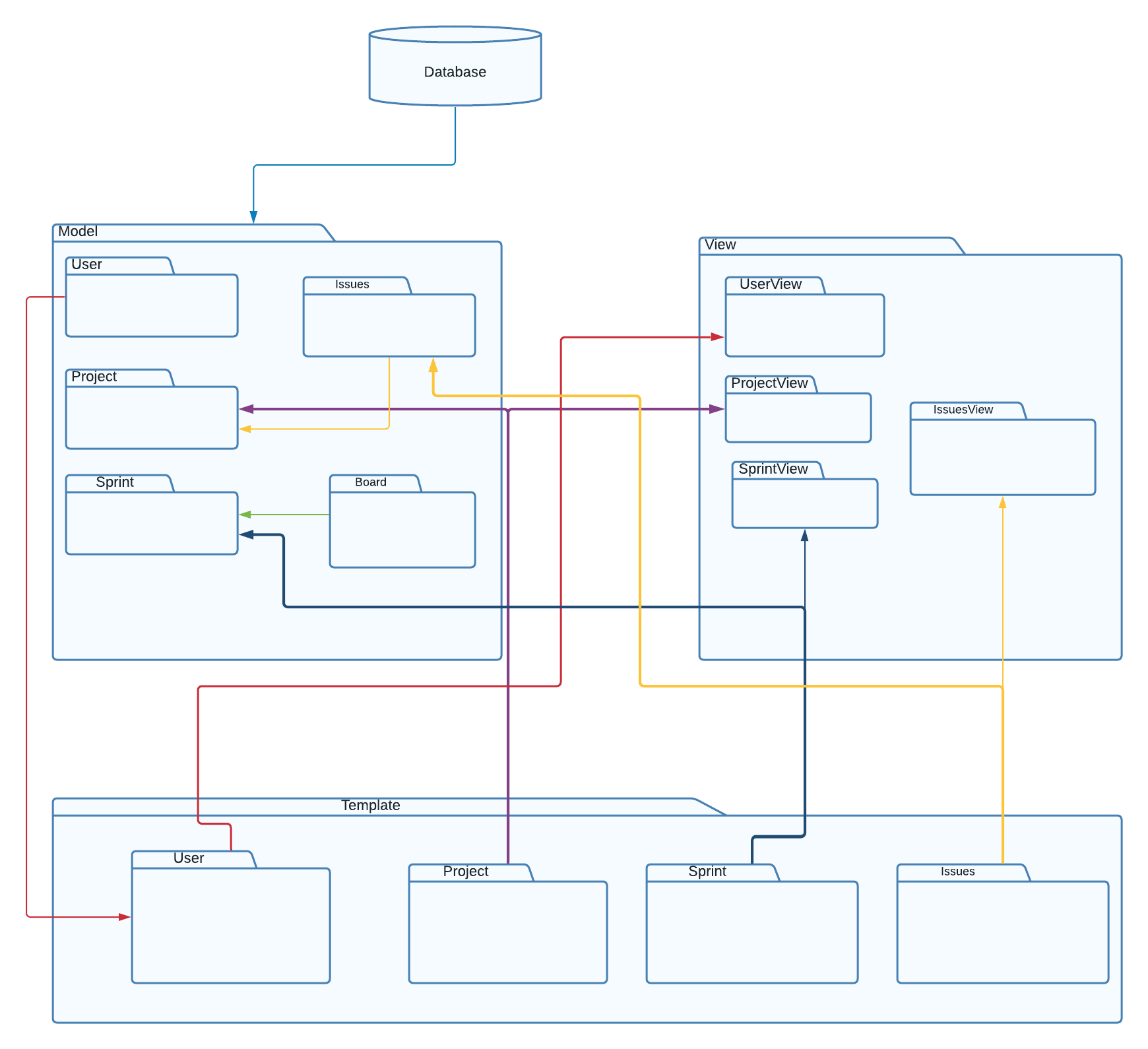
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sprint 4 | | | | |
| Stories | To Do | In Progress | Testing | Done |
| As a user I must be able to complete sprint in the application |  | Business logic  Add CSS style |  | Create view/template to complete a sprint |
| As a user I must be able to check the sprint backlog |  | Business logic  Add CSS style |  | Create view/template to check the sprint backlog |
| As a user I must be able to check the board | Create view/template to check the board  Add CSS style  Business logic |  |  |  |

# WIREFRAME





# DJANGO MODEL VIEW TEMPLATE



# LEAN ARCHITECTURE

We identify the project's components/entities applying some of the Lean Architecture techniques.

One of those techniques are:

* *"Focus on the form of what the system is, partitioning it so that each part can be managed as autonomously as possible."*
* *"The dominant consideration in supporting team autonomy is the locality with which common changes are handled."*

We focused mainly on partitioning the project in modules because it allows us to decompose the system into small tasks and work as a team without problem. As a team, modular programming is important because each member can work independently, focused on a specific functionality without affecting other modules in the project.

