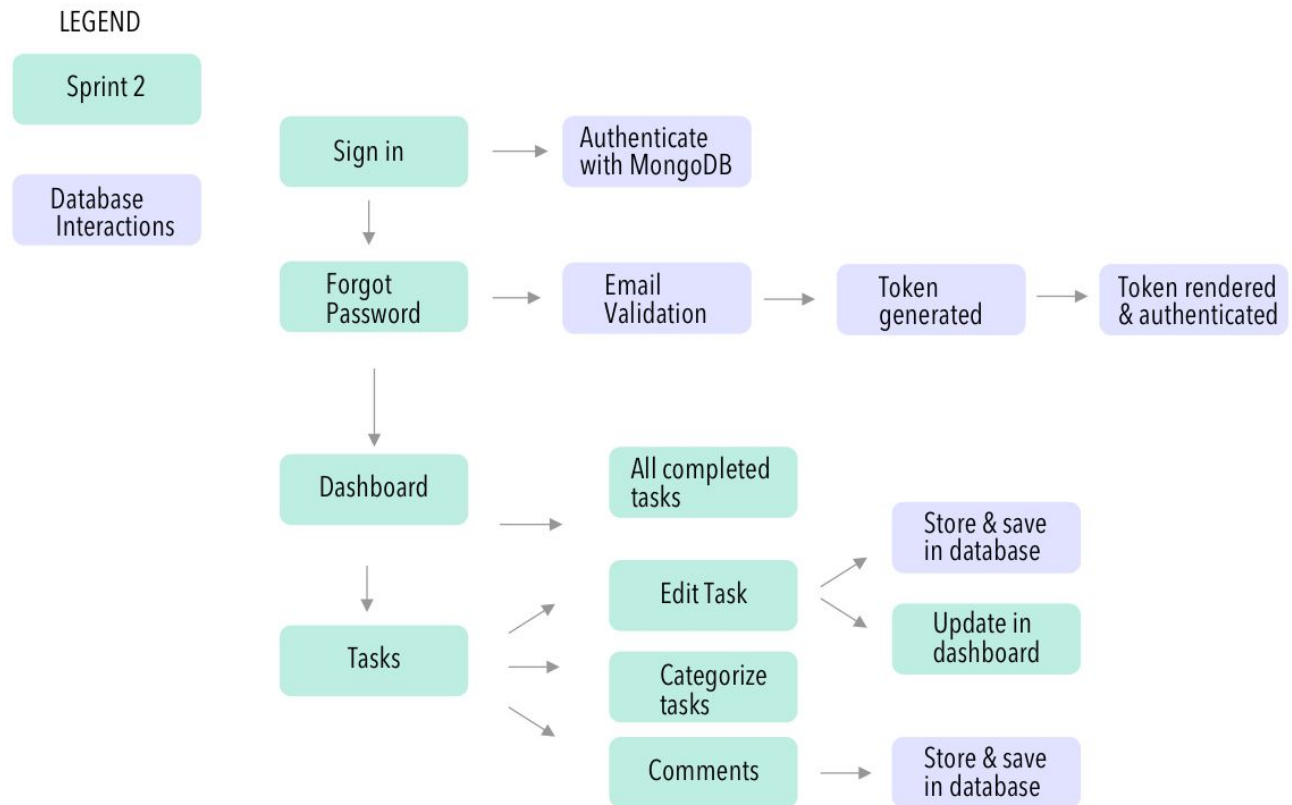


Sprint 2: Incremental Testing and Regression Testing

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1. Classification of Components

1.1 Define all components (diagram)



Login/Signup Module

- The Sign-up/Sign in module is responsible for creating a user account with a valid email and password
 - When a user has successfully signed up for an account earlier, if they forget their password, they have the option to reset it accordingly
 - Forgot password prompts a user to put in the email they signed up with and a link is sent to that email prompting them to reset their password by generating a unique token that is rendered and authenticated in the future.
 - The user is able to reset their password and the database is updated accordingly with the new password, reset the token to null and expiration date to the current date.

Dashboard Module

- The dashboard module allows the user to see their tasks that are in each category: to-do, in progress, and done and see a list of all their completed tasks
- All completed Tasks module

- By clicking on “All Completed Tasks” the user is able to see a list of all the tasks they have completed and when they had completed them along with additional specifications about the task

Task Module

- Tasks are displayed on the dashboard in cards in each category
- Edit Task Module
 - The edit task module allows the user to edit the task they had created earlier and updates the database accordingly with the new information
- Tasks UI
 - The UI of each task is changed according to the category so the user can visually see how many tasks they have in each department
- Urgency Module
 - Depending on the urgency of the task, an icon is displayed as a red caution sign to alert the user that the deadline is coming up
 - The urgency is dependent on if it the task is due the current day or the next day; if not then no symbol is shown
- Comments Module
 - Once a task has been created, the user is able to add comments

1.2 Which form of incremental testing did you follow

We followed the top-down integration testing because a user must be able to reset their credentials so they can start to access their account again. Forget Password is a critical module in the case that the user forgets his credentials and can no longer access the functionalities of our application. Therefore, the lower level modules such as task module and dashboard module can only be accessed once the database successfully updates the user’s credentials.

2. Incremental & Regression Testing

Module: Login/SignUp(Forget Password functionality)

Method: Manual

Incremental Testing

Defect No.	Description	Severity	How to correct
1	User could reset password from the same link multiple times.	Critical	Set and check the token expiration date.
2	User email link was broken for forget password.	Critical	Ensure path is correct and the path is being

			received correctly by the server.
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Regression Testing

Defect No.	Description	Severity	How to correct
1	User was still able to log in with old password.	Critical	Ensure changes to the database is being saved by implementing user.save().
2	Error messages for password mismatch was not showing.	Workaround	Prompt an error message on the client side by sending error messages to ejs files.

Module: Task Module

Method: Manual

Incremental Testing

Defect No.	Description	Severity	How to correct
1	If a user leaves a field empty while editing a task, nothing happens	Workaround	Add checks to prompt the user to enter values in all the fields
2	If a user edits a task, the previous information was not showing up on the task card	Workaround	Use /gettask method from app.js to get task information using taskId in edit-task.
3	If a user clicks on the edit button, edits their information, and then presses done, the information was not being updated	Critical	Changed some code in editTasks of app.js to make sure that the new information was being saved.
4	If a user clicks on the edit button, and	Workaround	Add a donePressed method that redirected the user

	then presses cancel, they were not being redirected		back to the homepage without calling the editTask method
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Regression Testing

Defect No.	Description	Severity	How to correct
1	If a user logs out, the edited task reverts back to its original form.	Critical	Added a username field to the database to match each task with a user to ensure their information saves
2	If a user adds comments and logs out the comments disappear upon next login.	Workaround	Added a username field and taskID check in our function to ensure the comments are added for the user's appropriate task.

Module: Dashboard Module

Method: Manual

Incremental Testing

Defect No.	Description	Severity	How to correct
1	When the user clicks all completed tasks, nothing happens	Critical	Made a new module for all completed tasks and redirected the user to this module when it is clicked
2	When the user clicks "details" for a task, the back arrow does not do anything	Workaround	Redirected the back arrow to go to the original screen when back button is pressed or "details" is pressed
3	The same comments weren't showing in completed task page and task module	Critical	Added a comments section to the database to store the user's comments

Regression Testing

Defect No.	Description	Severity	How to correct
1	Get all completed tasks returned returned completed tasks for other users as well as the current user.	Critical	Restructure the database request to include email in the query.
2	Get all completed tasks returned tasks in other categories aside from completed.	Critical	Restructure the database request to exclude to-do tasks and in progress tasks.