

# Stratify - Product Backlog

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## Problem Statement

Many people have various to-do lists for the different tasks they have to complete, so we are taking that concept and creating a dashboard to organize and prioritize these events. Our dashboard will model the JIRA dashboard many companies use to monitor their stories in an agile environment; however, we will be creating stories pertaining to the life events of each user. Users will be able to assign weights to tasks, and track how much they completed in a specific time frame.

## Background Information

Modern life is chaotic and often demands that people juggle a variety of responsibilities. Often times, keeping track of everything you have to do becomes chaotic and cumbersome. Stratify aims to help everyday people handle everyday life. In addition to organization, people often seek motivation to complete these tasks. Stratify allows users to track progress easily and look back on what they've gotten done, tracking priorities as well as long term changes in productivity. The dashboard will categorize your task based on work, social, and health to track your progress in each of the categories.

## Environment

We will be using NodeJS as our backend server and Angular for our front end. We will use JavaScript as our main programming language because it is most compatible with other technologies that we have. We will be using MongoDB as our database since this works very well with the NodeJS, Express system and can store large amounts of data.

## Functional Requirements

Backlog ID	Functional Requirement	Hours	Status
1	As a user, I would like to be able to sign up to Stratify	5	Completed in Sprint 1
2	As a user, I would like to be able to login to Stratify	3	Completed in Sprint 1
3	As a user, I would like to be able to confirm my email when signing up for Stratify	2	Completed in Sprint 1
4	As a user, I would like to be able to see my dashboard on the homescreen once I am logged in	5	Completed in Sprint 1
5	As a user, I would like to be able to change my password in the event that I forget it	3	Completed in Sprint 2
6	As a user I would like to be able to have the option to add a task to my dashboard	3	Completed in Sprint 2
7	As a user, I would like to be able to have the option to remove a task from my dashboard	5	Completed in Sprint 1
8	As a user, I would like to be able to receive an email link to change my password upon request.	5	Completed in Sprint 2
9	As a user, I would like to be able to add comments to tasks that I have completed.	5	Completed in Sprint 2
10	As a user, I would like to be able to have the option to see a specific task on my dashboard	3	Completed in Sprint 2
11	As a user, I would like to access the website through a domain link.	5	Completed in Sprint 2
12	As a user, I would like to be able to have the option to logout of my account	2	Completed in Sprint 1
13	As a user, I would like to assign a weight when adding a new task	1	Completed in Sprint 1
14	As a user, I would like to be able to assign a category as "work" when adding a new task	1	Completed in Sprint 1
15	As a user, I would like to be able to assign a category as "social" when adding a new task	1	Completed in Sprint 1
16	As a user, I would like to be able to assign a category as "health" when adding a new task	1	Completed in Sprint 1

17	As a user, I would like to be able to add comments when viewing a task.	3	Completed in Sprint 2
18	As a user, I would like to be able to add a description when adding a new task	3	Completed in Sprint 1
19	As a user, I would like to see different colors for each of my three categories	2	Completed in Sprint 2

20	As a user, I would like to be able to see a badge based on an upcoming deadline	2	Completed in Sprint 2
21	As a user, I would like to be given the option to choose if my task is in to-do, in-progress, or completed	3	Completed in Sprint 1
22	As a user, I would like to be able to see the progress of my tasks on my dashboard	5	Completed in Sprint 1
23	As a user, I would like to be able to edit a task on my dashboard	5	Completed in Sprint 2
24	As a user, I would like to be able to edit the deadline of my task	1	Completed in Sprint 2
25	As a user, I would like to be able to edit the category of my task	1	Completed in Sprint 2
26	As a user, I would like to be able to edit the comments and a description of my current tasks	1	Completed in Sprint 2
27	As a user, I would like to be able to edit the weight I had previously assigned a task	1	Completed in Sprint 2
28	As a user, I would like to see only the latest 12 tasks that I have completed on my board	3	Completed in Sprint 2
29	As a user, I would like to navigate to a "All completed tasks" page	1	Completed in Sprint 2
30	As a user, I would like to see all my completed tasks on the "All completed tasks" page	5	Completed in Sprint 2

# Non-Functional Requirements

## Architecture

We will be using NodeJS and Express for our backend server, and Angular for our front end. We decided this was ideal since our front-end is heavily component-based, and this allows us to easily swap pieces in and out without needing to reload the page. We will be using MongoDB as our database since this works very well with the NodeJS, Express system.

## Security

Users will be able to sign up for an account when they initially enter our web application and they will be sent an email confirmation to verify their account. Once they have verified their account, they will be able to sign in with the username and password they had specified while signing up. We will be using Bcrypt to ensure the safety of each user's password by hashing it.

## Usability

The web application should be easy to navigate and simple for the user to understand. The interface should be well designed for users to look at their dashboard and see a variety of tasks they have made. The overall user experience should be simple and clean.

## Performance

This will be a web application that will be built with Angular7 and NodeJS version 12.9.0. Since this is a web application, this will require a constant internet connection to use. The application during the build phase will use our local machines for the database and the server, then we will deploy to Heroku once we are close to being finished.

## Use Cases

### Case 1:

Create a Stratify account

Action	System Response
1. On the login page, clicks on "Sign-up"	2. Display sign up page
3. Enter Email and Password	4. Send email for email confirmation.
5. Confirm Email	5. Add user to MongoDB
	7. Display user dashboard

## Case 2:

Login to an existing account

Action	System Response
1.On the login page, user enters info and clicks on "Login"	2. Confirm user credentials
	3. Display user dashboard

## Case 3:

Add a task

Action	System Response
1. Select "Add a task"	2.Navigate to Add a task Page
3. Add Name, description, weight, category, and an optional deadline	4. If all inputs are valid, system will accept and create task
	5.User will be navigated back to the dashboard, and new task will be displayed in To-Do

## Case 4:

Profile Recover Password

Action	System Response
1. On login page User clicks "Forgot Password"	2. Send recovery email to listed address.
3. Click link in email	4. Show password recovery page
5. Enter new password	6. Update User credentials
	7. Display user dashboard

## Case 5:

Remove a task

Action	System Response
1. In the dashboard view, click the remove task button on a task	2. Remove task from database

	3. Remove task from UI and slide other tasks into proper position.
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### Case 6:

See an individual task

Action	System Response
1. User clicks on a task on the dashboard	2. User is navigated to individual task page
3. User clicks edit task	4. Navigate to edit task page
5. User can change progress between To-Do, In progress, and done	6. Change will be reflected on page, and when user goes back to dashboard, the task will have moved to the new category
7. User adds a comment	8. Comment will be displayed underneath the task

### Case 7:

See all completed tasks

Action	System Response
1. User clicks see completed tasks tab	2. Display completed tasks page
	3. Load all completed tasks

### Case 8 :

Logout

Action	System Response
1. User clicks on logout button	2. User is logged out and goes back to home page

### Case 9:

Edit an existing task

Action	System Response
1. User clicks on edit task	2. Navigate to edit task page
3. User can change weight, category, deadline, and	4. If inputs valid, then system will make said changes

description	to the task
	6. User will be navigated back to dashboard, and changes will be reflected