Project Planning Phase
Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	07 July 2024
Team ID	SWTID1719938419
Project Name	Social Media App (MERN)
Maximum Marks	4 Marks

Product Backlog, Sprint Schedule, and Estimation (2 Marks)

Sprint	Functional	User	User Story / Task	Story	Priority	Team Member
Sprint-1 (Frontend)	Registration Page	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	3	High	Tharun kumar.S
Sprint-1 (Frontend)	Login page	USN-2	As a user, I can log into the application by entering email & password	3	Medium	Tharun kumar.S
Sprint-1 (Frontend)	Home Page	USN-3	As a user, I can view a feed of posts from users I follow on the home page, including text, images, and videos.	4	High	Mahalakshmi K.M
Sprint-1 (Frontend)	Chats Page	USN-4	As a user, I can send and receive instant messages with other users in real-time.	3	Low	Sanjay.S
Sprint-1 (Frontend)	Notifications Page	USN-5	As a user, I receive notifications for likes, comments, and mentions on my posts or interactions with my content.	3	Medium	J Priyan
Sprint-1 (Frontend)	Search	USN-6	As a user, I can search for other users, posts, or topics within the application.	2	Medium	Sanjay.S

Sprint-1 (Frontend)	Stories	USN-7	As a user, I can create and view stories consisting of photos or short videos that disappear after 24 hours.	2	Low	Tharun kumar.S
Sprint-2 (backend)	Set up project structure	USN-8	As a backend developer, I need to set up the project structure with necessary directories and configuration files to facilitate organized development.	4	High	Mahalakshmi K.M
Sprint-2 (backend)	Create models	USN-9	As a backend developer, I need to create database models (User, Post, Stories, Notifications, Chats) with defined attributes and relationships to accurately represent data entities within the application.	4	Medium	Tharun kumar.S
Sprint-2 (backend)	Create Controllers	USN-10	As a backend developer, I need to create controllers (UserController, PostController, NotifyController, ChatController) to handle incoming requests, interact with models, and return appropriate responses based on business logic and client requirements.	4	High	J Priyan
Sprint-2 (backend)	create middleware	USN-11	As a backend developer, I need to create middleware functions (authentication middleware) to intercept and process incoming requests before they reach the route handlers, ensuring security, validation, or other cross-cutting concerns are addressed consistently across the application.	4	High	Sanjay.S

Sprint-2 (backend)	Establishing API routes	USN-12	As a backend developer, I need to define and implement API routes that map incoming HTTP requests to the appropriate controller actions, ensuring clear and organized access points for client-server communication within the application.	4	Medium	Tharun kumar.S
Sprint-3 (Database)	Setup Database	USN-13	As a backend developer, I need to set up the database (install the database system, configure connections, initialize schemas) to store and manage application data securely and efficiently.	8	High	Mahalakshmi K.M
Sprint-3 (Database)	Database for Users	USN-14	As a backend developer, I need to create a database schema and tables for storing user information (user ID, name, email, password) to support user registration, authentication, and profile management.	4	Medium	Tharun kumar.S
Sprint-3 (Database)	Database for Posts	USN-15	As a backend developer, I need to create a database schema and tables for storing posts (post ID, user ID, content, timestamp) to support the creation, retrieval, and management of user-generated content.	4	Medium	Tharun kumar.S
Sprint-3 (Database)	Database for Chats	USN-16	As a backend developer, I need to create a database schema and tables for storing chat messages (message ID, sender ID, receiver ID, message content, timestamp) to support real-time messaging between users.	4	Medium	Mahalakshmi K.M

Sprint-3 (Database)	Database for Stories	USN-17	As a backend developer, I need to create a database schema and tables for storing stories (story ID, user ID, media content, timestamp, expiration time) to support the creation, display, and expiration of ephemeral stories.	4	Low	J Priyan
Sprint-4 (integrate frontend and backend)	Make API calls	USN-18	As a frontend developer, I need to make API calls to the backend (using Axios) to retrieve and send data for features like user registration, login, posting, and messaging, ensuring seamless communication between the client and server.	7	High	Mahalakshmi K.M
Sprint-4 (integrate frontend and backend)	Handle responses and errors	USN-19	As a frontend developer, I need to handle API responses and errors appropriately (showing success messages, handling validation errors, displaying error notifications) to ensure a smooth user experience and robust error handling in the application.	6	High	Sanjay.S
Sprint-4 (integrate frontend and backend)	Updating User Interface (UI)	USN-20	As a frontend developer, I need to update the User Interface (UI) dynamically based on the data received from API responses (displaying user profiles, posts, messages, notifications) to ensure the application reflects the current state of the backend and provides a seamless user experience.	7	High	Tharun kumar.S

Sprint-5 (Testing)	Test integration	USN-21	As a QA engineer, I need to perform integration testing to verify that the frontend and backend components interact correctly, ensuring that data flows smoothly between them and that all integrated features function as expected.	12	High	Tharun kumar.S
Sprint-5 (Testing)	Debug Issues	USN-22	As a QA engineer, I need to identify and debug integration issues between the frontend and backend components, ensuring that any discrepancies or errors are resolved promptly to maintain the application's functionality and reliability.	8	High	Mahalakshmi K.M

Project Tracker, Velocity & Burndown Chart: (2 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	2 Days	3th July 2024	5th July 2024	20	5th July 2024
Sprint-2	20	2 Days	6th July 2024	8th July 2024	20	8th July 2024
Sprint-3	20	2 Days	9th July 2024	11th July 2024		11th July 2024
Sprint-4	20	1 Day	12th July 2024	12th July 2024		12th July 2024
Sprint-5	20	1 Day	13th July 2024	13th July 2024		13th July 2024