

Sprint 1 Planning

Project Name: BluMap

Team 23

Members: Daniyal Bekinalkar, Mert Karabulut, Stanley Kim, Meet Patel



Sprint Overview

Overview:

In Sprint 1, our primary objective is to establish the foundational elements of our travel planning platform. We recognize the critical importance of creating a robust infrastructure that will support the complex functionalities we aim to incorporate into the application. Our focus will be on implementing key features such as user authentication, real-time trip updates, and the trip planning module. Additionally, we aim to lay the groundwork for fostering user engagement and community interaction through features like messaging systems and overall trip ratings. By prioritizing these fundamental components, we aim to ensure that subsequent sprints can build upon a solid foundation, setting the stage for the successful development and deployment of our travel planning platform. Throughout this sprint, we will maintain a strong emphasis on collaboration, communication, and quality assurance to deliver a product that meets both user expectations and project objectives.

Team Roles:

Scrum Master: Mert Karabulut

Developers: Daniyal Bekinalkar, Stanley Kim, Meet Patel

Meeting Plan:

Tuesdays and Thursdays @ 8 pm until time/task desires

Saturdays @ 3 pm until time/task desires

Challenges/Risks for this sprint:

Several risks and challenges may impact our progress. One significant challenge we anticipate is the integration of multiple APIs for trip planning and real-time updates. Given the complexity of these external systems, we recognize the potential for technical hurdles and unforeseen complications during the integration process. Additionally, ensuring a smooth user experience while managing real-time data updates poses a potential challenge, as it requires careful optimization and synchronization to deliver timely and accurate information to users. Furthermore, balancing feature development with testing and quality assurance is another challenge we must address. With tight deadlines and competing priorities, we must prioritize thorough testing to maintain product reliability and ensure a seamless user experience. Despite these challenges, we are committed to proactive problem-solving, effective communication, and collaborative teamwork to mitigate risks and deliver a successful sprint outcome.

Sprint Detail

User stories to be implemented throughout this sprint:

1. As a user, I would like to receive timely notifications for upcoming activities.

Task Description	Estimated Time	Owner
Set up database schemas for notification settings and activities, and integrate a scheduling system for notification triggers.	2 Hours	Mert
Code backend logic to trigger notifications based on user preferences and the timing of upcoming activities.	2 Hours	Mert
Create an API endpoint for users to set notification preferences including frequency and activity types.	2 Hours	Mert
Fetch and display notifications in the UI, and add interface options for users to adjust notification settings.	2 Hours	Mert
Perform unit and end-to-end tests to ensure accurate delivery of notifications.	3 Hours	Stanley

Acceptance Criteria:

- Given the notification system is implemented correctly, when an activity's scheduled time is approaching, then the user should receive a notification reminding them of the upcoming activity.
- Given the user has set specific notification preferences, when conditions for those preferences are met (e.g., type of activity, time before the activity), then notifications should only be sent according to those settings.
- Given the API for notification settings is functioning correctly, when a user updates their notification preferences, then their new preferences are saved and reflected in the notifications they receive afterward.
- Given the frontend integration is completed, when a user receives a notification, then it should be displayed in a user-friendly manner within the application.
- Given the testing for notification functionality is thorough, when reviewing the test results, then all tests should pass, indicating that notifications are triggered, sent, and received correctly according to the designed logic and user settings.

2. As a user, I would like to save my travel history, including past itineraries.

Task Description	Estimated Time	Owner
Develop a schema to store travel history, including itineraries, destinations, activities, photos, and notes.	5 Hours	Mert
Write server-side API endpoints to manage saving and retrieving users' travel histories.	2 Hours	Mert
Create a user interface for adding and reviewing past itineraries, with options for media uploads.	3 Hours	Mert
Connect the travel history feature to user profiles for easy access and management.	2 Hours	Mert
Perform tests to ensure the travel history feature works seamlessly across the database, backend, and frontend.	3 Hours	Meet

Acceptance Criteria:

- Given a user has completed a trip, then the trip should be saved to their profile and be retrievable in the future
- Given the travel history feature is integrated with user profiles, when a user visits their profile, then they should see a list or summary of their past itineraries, with options to view more details
- Given a user wants to review a specific past trip, when they select that trip from their travel history, then they should be presented with all the details they saved about that trip, including dates, destinations, activities, and any photos or notes.
- Given the frontend and backend are correctly integrated, when a user saves a new trip to their travel history, then the data should be accurately stored in the database without loss of information.
- Given comprehensive testing has been conducted, when examining the results, then all tests related to the travel history feature should pass, indicating that users can reliably save, view, and manage their travel histories within the application.

3. As a user, I would like to be able to view my saved travel histories.

Task Description	Estimated Time	Owner
Update the database to efficiently fetch travel history details, including itineraries and associated media.	1 Hour	Daniyal
Develop API endpoints for retrieving users' saved travel histories from the backend.	2 Hours	Daniyal
Design a UI section where users can easily browse through their past travel itineraries and details.	2 Hours	Daniyal
Ensure users can access and view their travel histories directly from their profile pages.	1 Hour	Daniyal
Conduct tests to verify seamless access and display of saved travel histories across the platform.	3 Hours	Daniyal

Acceptance Criteria:

- Given a user navigates to their profile, when they select the option to view travel histories, then they should see a list of their saved travel itineraries including destinations, dates, and activities.
- Given a user has saved travel histories with uploaded media, when they access a specific itinerary, then they should be able to view all associated photos and notes alongside the travel details.
- Given the travel history API is functioning correctly, when a user requests to view their travel histories, then the system should fetch and display the histories without errors or delays.
- Given a user has no saved travel histories, when they attempt to view their travel histories, then they should receive a message indicating there are no saved itineraries and suggesting steps to create one.
- Given the user interface for travel history viewing has been implemented, when a user interacts with this feature, then they should find it intuitive to navigate, with options to sort or filter their travel histories for easier access.

4. As a user, I would like to access my frequently planned activities.

Task Description	Estimated Time	Owner
Design a database schema to track and store users' frequently planned activities, including activity type, frequency, and preferences.	2 Hours	Meet
Develop an API endpoint to allow users to fetch their list of frequently planned activities, sorted by frequency or preference.	3 Hours	Meet
Update the application's UI to include a section where users can view and access their frequently planned activities easily.	2 Hours	Meet
Conduct thorough testing to ensure accurate tracking, updating, and retrieval of frequently planned activities.	3 Hours	Meet

Acceptance Criteria:

- Given a user has planned activities multiple times, when they access their frequently planned activities section, then they should see a list of those activities ranked by how often they've been planned.
- Given the backend accurately tracks activity planning, when a user views their frequently planned activities, then this list should reflect their most recent activity preferences and frequencies.
- Given the API endpoint for frequent activities is operational, when a user requests their frequently planned activities, then the system should quickly fetch and display the activities without errors.
- Given a user interacts with the frequent activities UI, when they navigate through this section, then they should find it intuitive, responsive, and informative, providing meaningful insights into their planning habits.
- Given comprehensive testing has been conducted, when reviewing the test outcomes, then all tests related to frequent activity tracking and retrieval should pass, indicating reliable functionality.

5. As a user, I would like to be able to create and register an account.

Task Description	Estimated Time	Owner
Integrate Auth0 authentication system into the application.	3 Hours	Daniyal
Design user interface for the registration form.	2 Hours	Daniyal
Implement backend functionality for user registration and account creation.	3 Hours	Daniyal
Implement post registration for identifying user preferences.	3 Hours	Daniyal

Acceptance Criteria:

- Given a user on the platform, when they decide to create an account, then they should be directed to the account registration page.
- Given a user on the registration page, when they fill in the required information and submit the form, then their account should be successfully created.
- Given a user successfully registers, when they click on the "Register" or "Sign Up" button, then they should be logged in to the platform.
- Given a user encounters errors during registration, when they submit the form with missing or invalid information, then appropriate error messages should be displayed.
- Given a new user accessing the platform, when they want to access personalized features or save trip itineraries, then they should be prompted to create an account.

6. As a user, I would like to be able to log in for a personalized experience.

Task Description	Estimated Time	Owner
Integrate Auth0 authentication system into the application.	2 Hours	Daniyal
Implement a login page UI.	1 Hour	Daniyal
Implement the backend authentication logic.	3 Hours	Daniyal
Connect the frontend to the backend for login.	1 Hour	Daniyal
Test login functionality and check if user information is saved across the web application.	2 Hours	Daniyal
Be able to regain account access if the password is forgotten.	2 Hours	Daniyal

Acceptance Criteria:

- Given I am on the login page, when I enter my valid login credentials, then I expect to be successfully logged into the platform.
- Given I am on the login page, when I enter incorrect login credentials, then I expect to see an error message indicating that the login credentials are invalid.
- Given I am on the login page, when I click on the "Forgot Password" link, then I expect to be redirected to a page where I can enter my email address to receive a password reset link.
- Given I am logged into the platform, when I navigate away from the page and return later, then I expect to be logged out for security reasons.
- Given I am logged into the platform, when I choose to log out from my account, then I expect to be redirected to the login page, and upon successful logout, I should no longer have access to any personalized content or features until I log back in.

7. As a user, I would like the ability to personalize the look and feel of the application by choosing from different themes or color schemes.

Task Description	Estimated Time	Owner
Create a user interface option within the application settings that allows users to select and apply different themes or color schemes.	1 Hour	Stanley
Develop backend logic to store and manage user preferences for themes, ensuring these preferences are applied consistently across the application.	2 Hours	Stanley
Build an API endpoint to save and retrieve user-selected themes, allowing for personalization persistence across sessions.	2 Hours	Stanley
Update the frontend to dynamically apply selected themes and color schemes, ensuring a seamless user experience.	1 Hour	Stanley
Conduct testing to ensure the theme personalization feature works correctly, including user preference saving and theme application.	3 Hours	Stanley

Acceptance Criteria

- Given a user selects a theme or color scheme from the application settings, when they navigate through the application, then the chosen theme should be consistently applied across all pages and sessions.
- Given the theme management logic is functioning correctly, when a user changes their theme preference, then the application should update in real-time to reflect this change without errors.
- Given a user has previously selected a theme, when they log in or return to the application, then their chosen theme should be automatically applied, demonstrating persistence of personalization.
- Given the frontend integrates well with the theme selection feature, when a user explores the theme selection interface, then they should find it intuitive and responsive, with a clear preview of how themes will look once applied.
- Given extensive testing has been performed, when examining the outcomes, then all tests related to theme personalization should pass, ensuring the feature's reliability and user satisfaction.

8. As a user, I would like to create detailed, hour-by-hour trip itineraries for different types of trips so that I can plan my travel effectively.

Task Description	Estimated Time	Owner
Design a feature within the application that allows users to create hour-by-hour itineraries, including the ability to add, edit, and delete activities for various trip types.	3 Hours	Daniyal
Build backend functionality to store and manage the intricate details of each itinerary, including times, activities, locations, and any user notes.	4 Hours	Mert
Develop API endpoints to facilitate the creation, retrieval, updating, and deletion of detailed itineraries.	2 Hours	Mert
Update the application's UI to include the itinerary planning tool, ensuring a user-friendly interface for detailed trip planning.	5 Hours	Daniyal
Conduct comprehensive testing to ensure the itinerary planning feature functions correctly, including data persistence, UI responsiveness, and user experience.	3 Hours	Mert

Acceptance Criteria

- Given a user wishes to plan a trip, when they use the itinerary planning tool, then they should be able to create a detailed itinerary that includes activities planned on an hour-by-hour basis.
- Given the backend supports detailed itineraries, when a user saves their itinerary, then all details including times, activities, and locations should be accurately stored and retrievable.
- Given a user has created an itinerary, when they wish to modify it (add, edit, or delete activities), then the changes should be reflected in real-time and saved correctly in the backend.
- Given the itinerary planner is integrated with the UI, when a user interacts with the planning tool, then they should find the interface intuitive, with easy navigation and clear options for managing their trip details.
- Given thorough testing has been done, when reviewing the test results, then all tests related to the itinerary planning feature should pass, ensuring the feature is reliable and provides a positive user experience.

9. As a user, I would like the ability to share my trip itinerary, experiences, and photos with others on the social tab of the application.

Task Description	Estimated Time	Owner
Create functionality within the app allowing users to share their trip itineraries, experiences, and photos on a dedicated social tab.	4 Hours	Meet
Build backend infrastructure to handle the uploading, storing, and retrieving of shared itineraries, experiences, and photos.	3 Hours	Meet
Develop API endpoints to enable the posting, updating, and deletion of shared content on the social tab.	3 Hours	Stanley
Update the app's UI to include options for users to share their trips, view others' shared trips, and interact with shared content.	3 Hours	Meet
Conduct thorough testing to ensure that the sharing feature works correctly, including privacy settings, user interactions, and content visibility.	3 Hours	Stanley

Acceptance Criteria

- Given a user wants to share their trip itinerary, when they post it to the social tab, then it should be visible to other users based on the selected privacy settings.
- Given the backend supports content sharing, when a user shares their experiences and photos, then the content should be stored securely and retrieved/displayed correctly on the social tab.
- Given a user views the social tab, when they interact with shared content (like, comment, share), then their interactions should be recorded and visible to others as permitted.
- Given the social sharing feature is integrated into the UI, when users navigate to the social tab, then they should find an engaging and user-friendly interface that encourages social interaction.
- Given comprehensive testing has been conducted, when examining the outcomes, then all tests related to the social sharing feature should pass, ensuring the functionality is reliable and enhances the social aspect of the app.

10. As a user, I would like the ability to share my trip itinerary, experiences, and photos on other social media platforms directly from the application.

Task Description	Estimated Time	Owner
Implement features within the app that enable users to share their trip itineraries, experiences, and photos directly to external social media platforms.	3 Hours	Meet
Build backend mechanisms to facilitate the seamless sharing of content to social media platforms, including formatting data for compatibility.	1 Hour	Meet
Update the app's UI to include clear and accessible options for users to share their content directly on social media platforms.	2 Hours	Meet
Conduct end-to-end testing to ensure that the social media sharing functionality works reliably, maintaining user privacy and content integrity.	3 Hours	Meet

Acceptance Criteria

- Given a user has created a trip itinerary and wants to share it, when they select the option to share on social media, then they should be able to choose from connected social media platforms and share their content directly.
- Given the backend supports external sharing, when a user shares content to a social media platform, then the content should be formatted correctly and posted to the user's social media profile without errors.
- Given API connections with social media platforms are established, when a user shares their experiences and photos, then the sharing process should be smooth, with immediate feedback on the success or failure of the post.
- Given social sharing options are integrated into the UI, when users navigate to the sharing interface, then they should find it intuitive to use, with clear instructions and feedback on the sharing process.
- Given comprehensive testing has been performed, when reviewing the test results, then all tests related to social media sharing should pass, ensuring the feature enhances the app's social engagement capabilities effectively

11. As a user, I would like to be able to view my user profile as well as other user profiles.

Task Description	Estimated Time	Owner
Create a user-friendly interface for displaying user profiles, including personal information, trip histories, and shared content.	3 Hours	Mert
Develop backend logic and database structures to store and retrieve user profile information and ensure privacy settings are respected.	2 Hours	Mert
Create API endpoints to facilitate the fetching of user profiles, including the user's own profile and those of other users, based on visibility settings.	3 Hours	Mert
Update the application's UI to include access to user profiles, with navigation options to view one's own profile and search for others.	2 Hours	Mert
Conduct thorough testing to ensure that profile viewing works correctly, including privacy compliance, data accuracy, and user experience.	3 Hours	Meet

Acceptance Criteria

- Given a user accesses their own profile, when they navigate through their profile details, then they should see accurate information including their bio, trip histories, and any shared content.
- Given a user views another's profile, when the profile's privacy settings allow for viewing, then the viewer should see the profile information permitted by the owner's privacy settings.
- Given the backend supports profile data retrieval, when a user requests to view a profile, then the requested data should be fetched accurately and displayed without delays.
- Given profile viewing is integrated into the UI, when users interact with the profile viewing feature, then they should find the interface intuitive, with clear options to explore profile content.
- Given comprehensive testing has been done, when analyzing the test outcomes, then all tests related to profile viewing should pass, confirming that users can reliably view their own and others' profiles according to the designed functionality.

12. As an admin, I would like to manage user accounts, which includes viewing, suspending, or deleting them if necessary.

Task Description	Estimated Time	Owner
Create a comprehensive admin dashboard interface that allows for the viewing, suspending, and deleting of user accounts.	2 Hours	Stanley
Develop backend functionality to handle admin requests for managing user accounts, including updates to account status and deletion processes.	3 Hours	Stanley
Build secure API endpoints that allow admins to perform account management tasks such as suspending or deleting accounts.	2 Hours	Stanley
Update the application's UI to incorporate admin controls for user account management, ensuring ease of use and accessibility.	2 Hours	Stanley
Conduct thorough testing to ensure that admin features for managing user accounts work correctly and securely, without impacting other system functionalities.	3 Hours	Stanley

Acceptance Criteria

- Given an admin needs to review user accounts, when they access the admin dashboard, then they should be able to view a list of all user accounts with options to suspend or delete accounts as necessary.
- Given an admin decides to suspend a user account, when they execute the suspension action, then the user's account should immediately lose access to the application, with the user being notified accordingly.
- Given an admin decides to delete a user account, when they execute the deletion action, then the account should be permanently removed from the database, along with all associated user data, following data protection regulations.
- Given the admin controls are integrated into the UI, when an admin navigates the dashboard for account management, then they should find the interface intuitive, with clear indications of account statuses and management actions.
- Given comprehensive testing has been performed, when analyzing the test results, then all tests related to admin account management should pass, ensuring the feature is reliable and secure.

Backlog

Functional Requirements:

Core

1. As a user, I would like to view events, attractions, restaurants, hotels, and transportation in a location so that I can add them to my itinerary.
- ~~2. As a user, I would like to receive timely notifications for upcoming activities.~~
3. As a user, I would like to receive notifications about changes in the itinerary and important updates related to my trip.
4. As a user, I would like real-time travel planning capabilities that lets me adjust my event itinerary on the go so that I can ensure flexibility during the trip.
5. As a user, I would like personalized recommendations based on current location and preference when adjusting events on an active itinerary.
- ~~6. As a user, I would like to save my travel history, including past itineraries.~~
- ~~7. As a user, I would like to be able to view my saved travel histories.~~
- ~~8. As a user, I would like to access my frequently planned activities.~~
9. As a user, I would like journey optimization strategies, including route optimization, suggesting attractions, and ordering for visiting attractions, to maximize efficiency and enjoyment so I can reach the destination in the quickest time.
10. As a user, I would like to be given travel and itinerary recommendations based on my preferences.
11. As a user, I would like to be given travel and itinerary recommendations based on the trip or my location.

Utils

1. As a user, I would like to be able to use the site without an account to view others' itineraries.
- ~~2. As a user, I would like to be able to create and register an account.~~
- ~~3. As a user, I would like to be able to log in for a personalized experience.~~
- ~~4. As a user, I would like the ability to personalize the look and feel of the application by choosing from different themes or color schemes.~~
- ~~5. As a user, I would like to create detailed, hour-by-hour trip itineraries for different types of trips so that I can plan my travel effectively.~~
6. As a user, I would like the option to use the application in multiple languages to cater to a diverse user base.
7. As a user, I would like a tutorial so that I can use the app correctly.

Social

1. As a user, I would like a post-reputation system so that I can review other user content and their created itineraries.
2. As a user, I would like to be able to get badges or rewards, for achieving certain milestones or actively participating in the community.
3. As a user, I would like to be able to upload photos to add to my itinerary.

4. As a user, I would like to be able to see my photos from my past travels.
- ~~5. As a user, I would like the ability to share my trip itinerary, experiences, and photos with others on the social tab of the application.~~
- ~~6. As a user, I would like the ability to share my trip itinerary, experiences, and photos on other social media platforms directly from the application.~~
7. As a user, I would like to view emergency contact information, local emergency services, and travel advisories for each destination.
8. As a user, I would like to manage my emergency contact information, local emergency services, and travel advisories for each destination.
9. As a user, I would like to leave reviews and ratings for specific activities or locations within my itinerary, contributing to the overall community-driven system.
10. As a user, I would like to comment on itineraries designed by myself and other users.
11. As a user, I would like to be able to activate an itinerary with another user as we go through the active itinerary together.
12. As a user, I would like to be able to follow/unfollow other users.
13. As a user, I would like to be able to get trip or itinerary recommendations based on my preferences or location.
14. As a user, I would like to be able to block/unblock other users.
15. As a user, I would like to be able to make my account public or private.
16. As a user, I would like to be able to add friends on the platform.
- ~~17. As a user, I would like to be able to view my user profile as well as other user profiles.~~
18. As a user, I would like to be able to chat with other users through the application.
19. As a user, I would like to be able to anonymize itinerary event information.

Admin

- ~~1. As an admin, I would like to manage user accounts, which includes viewing, suspending, or deleting them if necessary.~~
2. As an admin, I would like to access analytics and insights on user engagement.
3. As an admin, I would like to access information about popular destinations.
4. As an admin, I would like to access frequently planned activities.
5. As an admin, I would like to moderate user-generated content, including reviews, comments, and uploaded media, to ensure compliance with community guidelines and prevent inappropriate or offensive content.
6. As an admin, I would like a reporting system where users can flag content or report issues.
7. As an admin, I would like to verify user identities, especially for users who contribute significantly to the community, to enhance the credibility of reviews and recommendations.
8. As an admin, I would like the ability to send important announcements or notifications to users, either individually or as a group, to communicate updates or address issues.