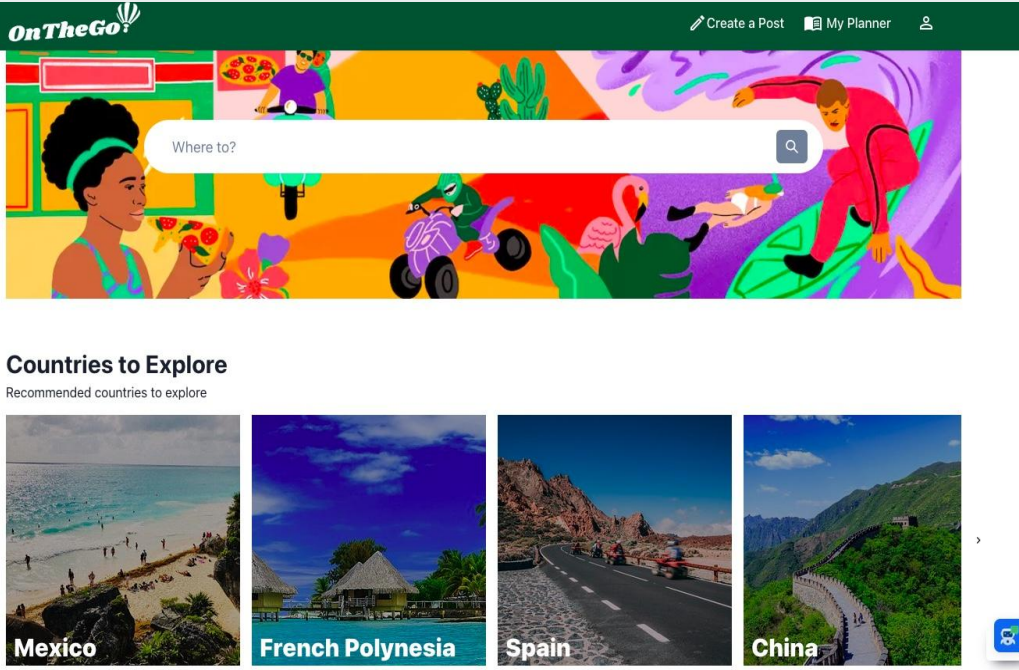


# OnTheGo Demo



**OnTheGo** is a client-server travel planning and social sharing website where users can explore travel content, plan trips, interact with maps, and save and create posts. It combines elements of travel review sites with personalized planning tools to create a comprehensive user experience for travel lovers.

# System Description



- A travel-focused social media platform for both travelers and businesses.
- Users can interact with other users by commenting and upvoting other users' posts as well as posting and rating different locations that they visit.
- Helps users with their trip planning by being a resource for online feedback about different travel destinations.
- Features content posted by users, interactive trip planning, and ways for businesses to promote their brand or travel destinations.
- Integrated with Google's Autocomplete Search Suggestions API to provide a variety of travel locations, places of interest, businesses etc.
- Integrated with Open AI's Assistants API for AI Chat Support to assist people with using the website.

# Scope



- Allows travelers to share, discover, and plan trips utilizing information from Google Maps/ Places API.
- Enables user interaction through posts, comments, upvotes, and bookmarks.
- Users have easy access to information like location reviews, different travel locations, contact details, and maps powered by Google.
- Provides users with the ability filter posts about different locations on the Discover page (e.g., ratings, categories, locations).
- Businesses can post promotions for specific locations to get users to review the location and provide feedback.

# Goal



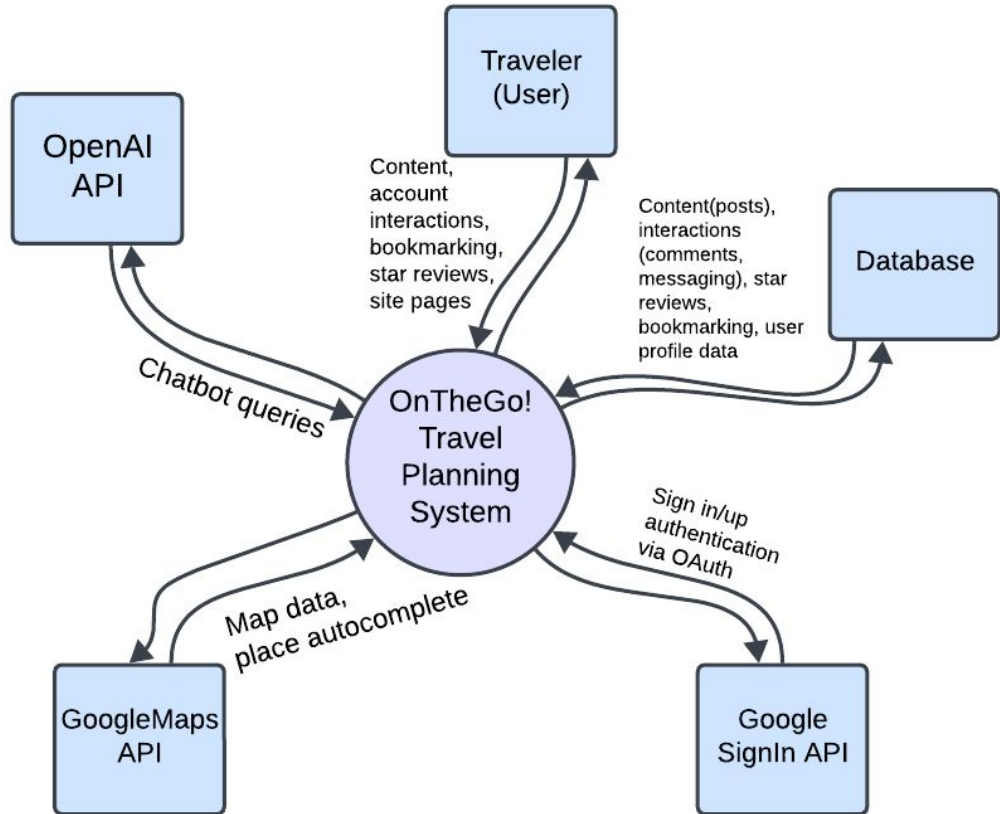
- Simplify trip planning and inspire users to travel the world using posts, feedback and reviews of locations by other users.
- Enhance the user experience and provide users with answers to their questions with an AI-powered customer service chatbot.
- Facilitate business growth by allowing them to connect with users and promote their business to people looking to travel.
- Support travelers by allowing them to plan their trips on our website and use content and reviews posted by other users as inspiration for their next travel destination.

# Main User Stories

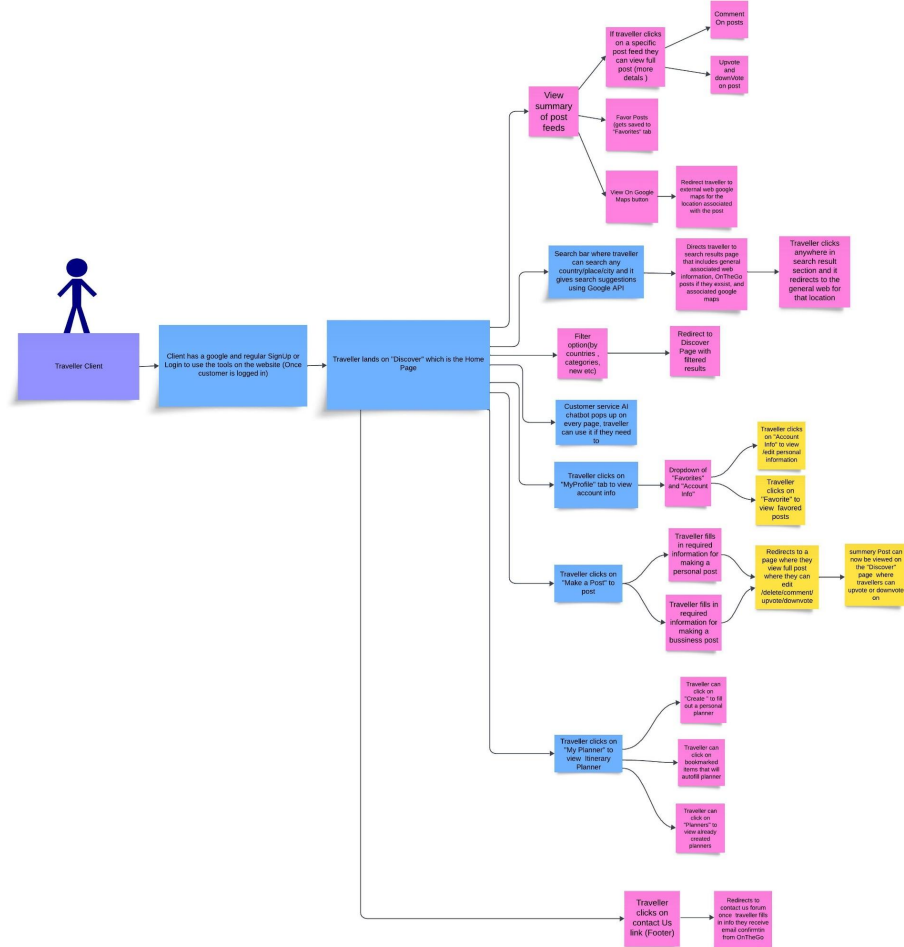


- **Browsing and interacting with Posts:** As a traveler, I want to browse and engage with posts so that I can discover new destinations and get inspiration for my future trips.
- **Make a Post:** As a traveler, I want to create a post to share my own travel experiences so I can inspire other travelers.
- **Bookmark Posts:** As a traveler, I want to be able to bookmark posts I am interested in so that I can later reference them.
- **Search Feature:** As a traveler, I want to utilize the OnTheGo search feature so that I can query results for destinations I'm interested in.
- **Make a Planner:** As a traveler, I want to use the myPlanner template so that I can develop an efficient itinerary for a planned trip.

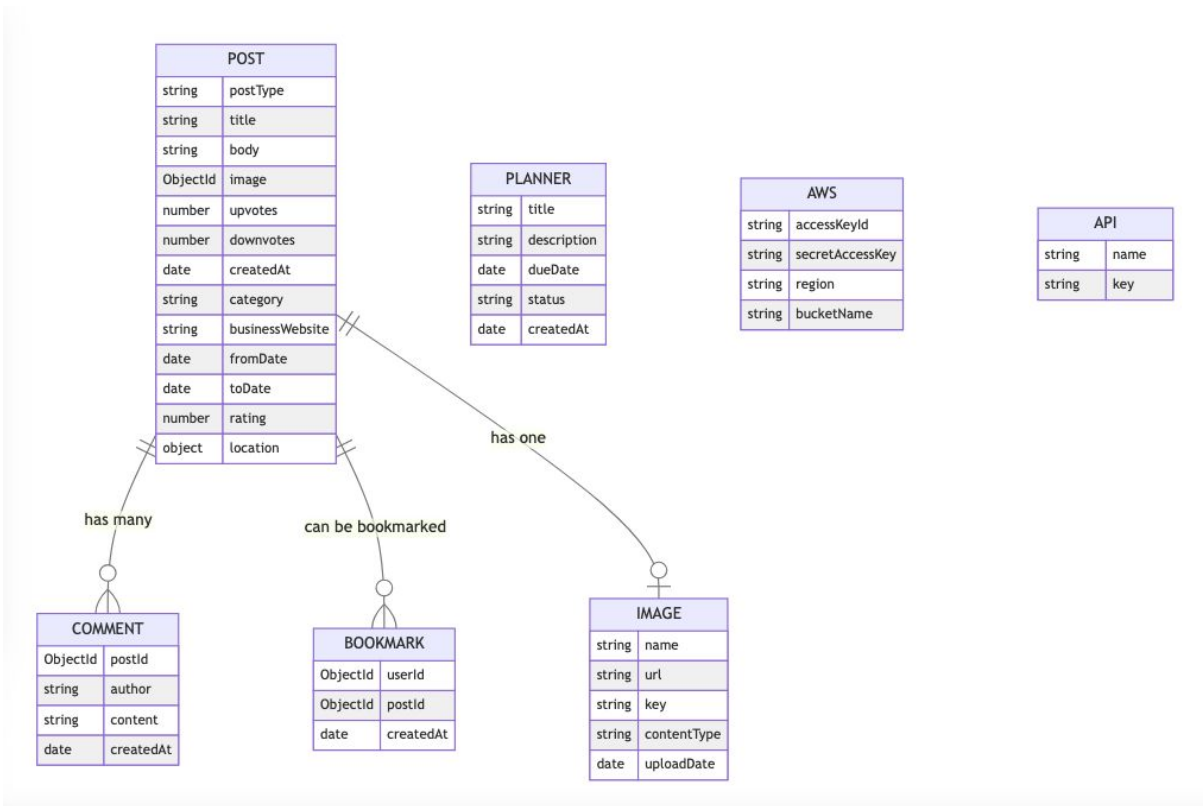
# Context Diagram



# Use Case Diagram



# Database Diagram





# AWS Integration

- API secrets stored in MongoDB with a secret management system built into the application.
- S3 bucket to store images for the application.
- Three way interaction with internal application servers, MongoDB and AWS S3



# Open AI powered chatbot



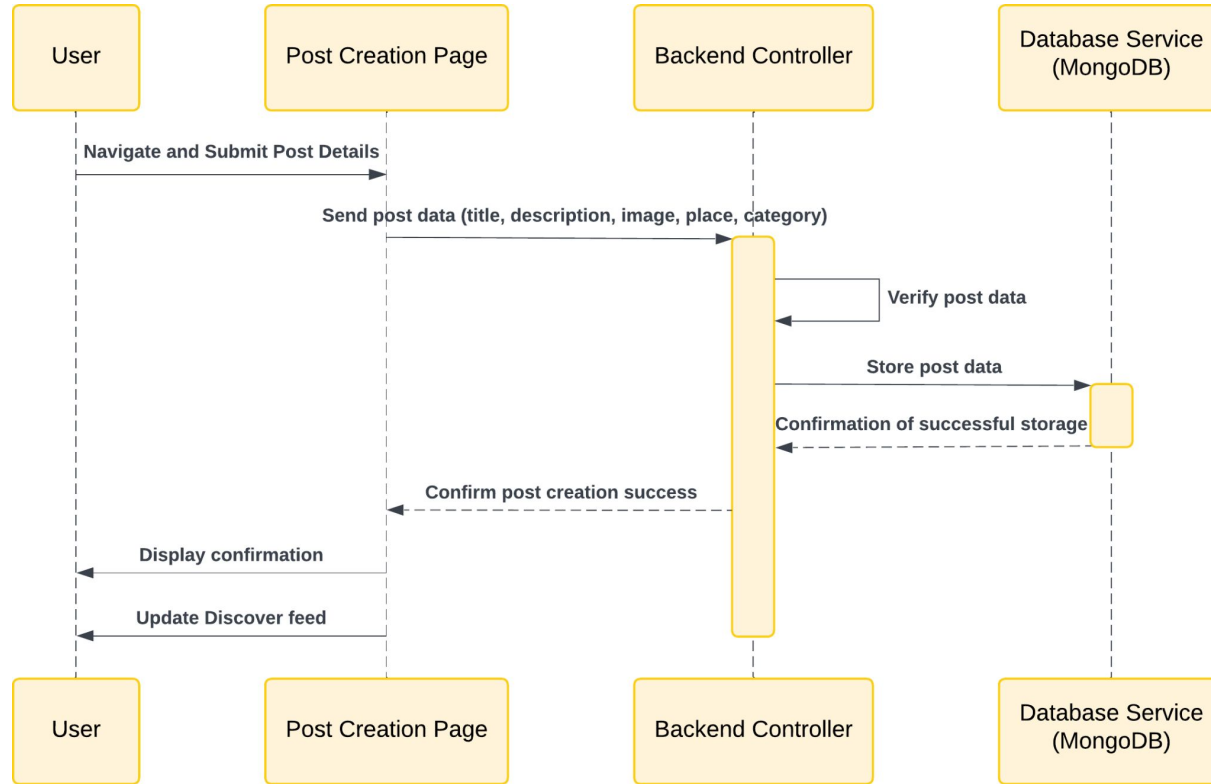
- Secret storing with internal management system
- OpenAI Assistants API
- Message threads
- Customized GPT interaction - Customer Service Personnel for OnTheGo - Brenda

# Google APIs

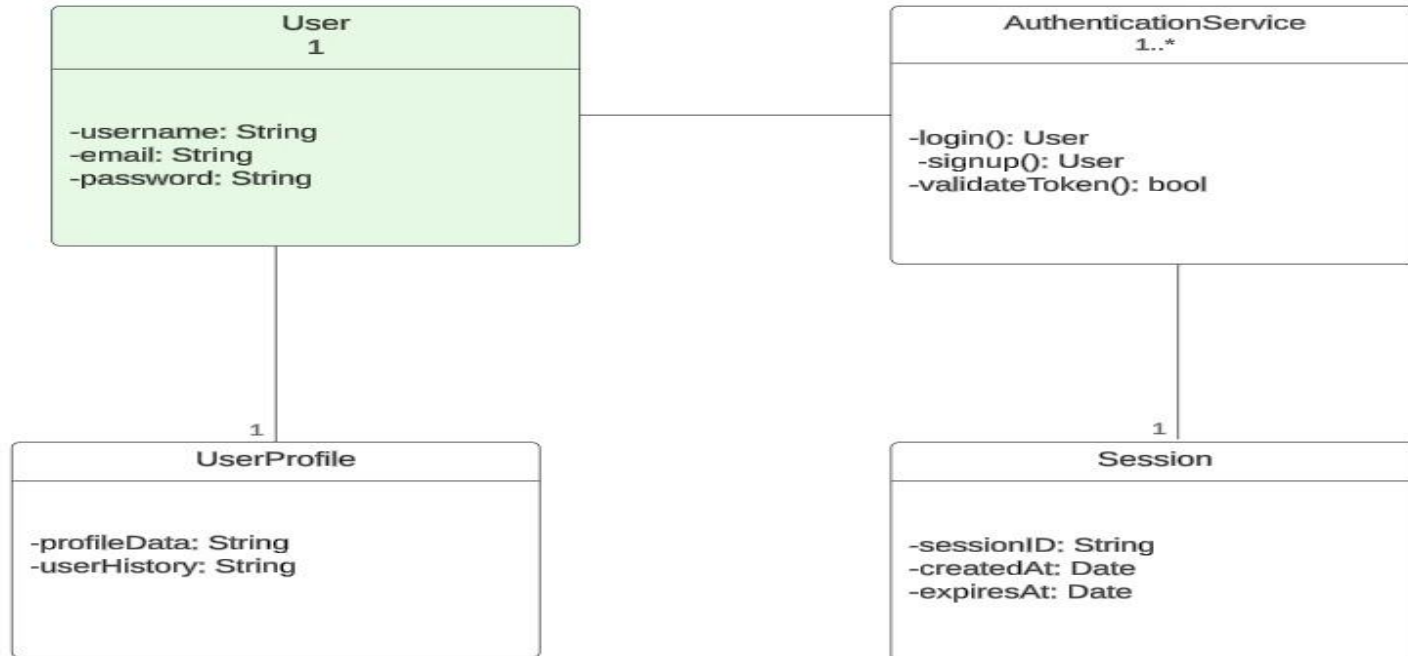


- Internal Secret Management System
- Google Places API
  - Search Results Information
  - Search Autocomplete and Location Information
  - Search Results Map Information
- Google Accounts API
  - Sign in with google
  - User information fetch

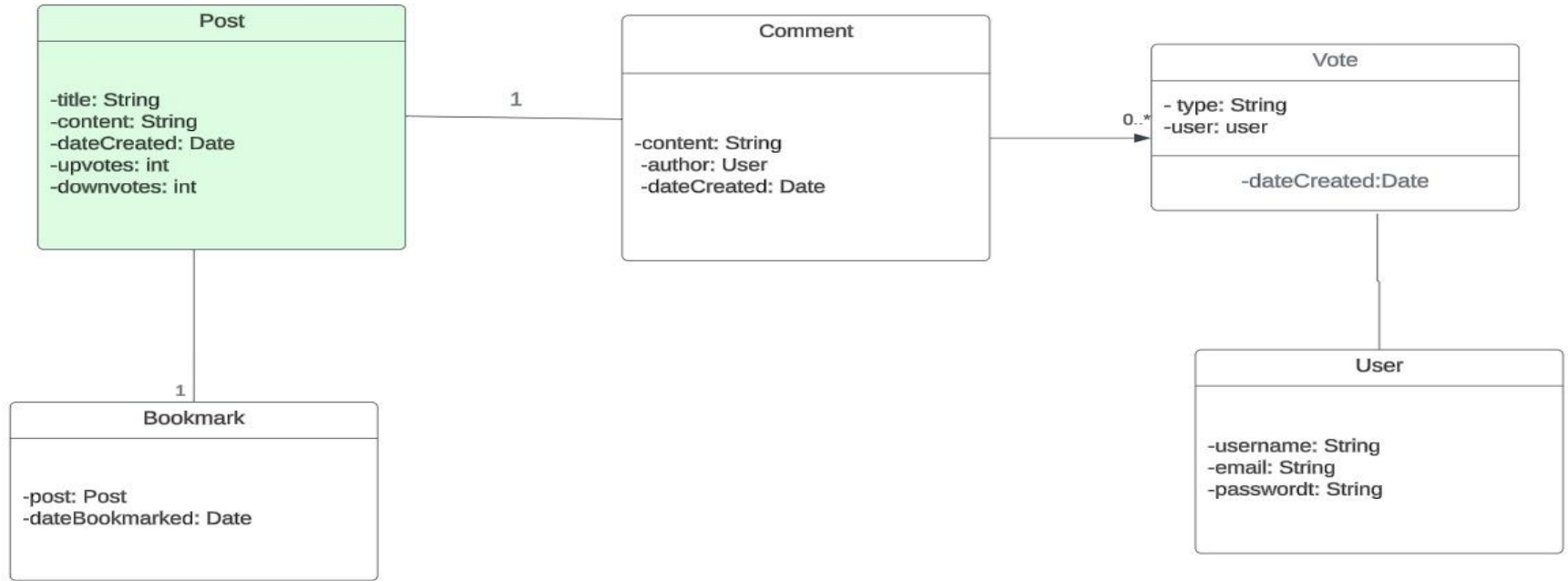
# Make a Post UML Sequence Diagram



# User Management and Authentication UML Diagram



# Post Management UML Diagram



# Previous State of Development

OnTheGO!

BacklogPriority boardTeam itemsRoadmapIn reviewMy itemsNew view

Filter by keyword or by field

Backlog 6/15 Estimate: 0

This item hasn't been started

Draft

Create Google Signup/Signin

Draft

My planner (auto complete with bookmark) (suggestions of planners based on upvotes/downvotes)

Draft

On the view post page (on the right side have suggestion of countries (clicked on uses filter) and under it suggested posts if clicked on gives full view of the post.

Draft

Design for the discover page posts

Draft

Deploy to the cloud

Draft

Create suggestions posts and countries on the ViewPost page

+ Add item

Ready 1/2 Estimate: 0

This is ready to be picked up

Finalize schema for create post

Draft

Implement search suggestions for place search

Draft

Create a post functionality

Draft

Search results page basic layout

Draft

Contact US page

Draft

Header and Footer UI

Draft

Setup filter feature functionality

Draft

The countries images on the Discover page act as another filter when clicked on direct to posts only on that country

+ Add item

In progress 8/13 Estimate: 0

This is actively being worked on

Draft

Comment and upVote and downVote functionality

Draft

View post page

Draft

Backend/API chat box

Draft

Filter results on the search page

Draft

Finish filter implementation SubNav HomeCountries

Draft

Image upload functionality (one image)

Draft

Navbar space/footer (color) Off white, cream

Draft

View in google maps button functionality

+ Add item

In review 4/5 Estimate: 0

This item is in review

Draft

My Planner (UI design)

Draft

UI for create a post (margin match discover page)

Draft

Bookmarks/favorites interaction

Draft

UI of AI chat box(persistent on every page)

Draft

Make "Myplanner" function

Draft

Sample posts (update it with schema) and populate ones for the discover page countries (five for each)

Draft

MongoDB Research Implementation

+ Add item

Done 0 Estimate: 0

This has been completed

Draft

Fetch searched results from the web and its google map

Draft

Filter by autocomplete search and return specific results and also returns key words related results

Draft

Restructure Code

Draft

Store API keys in the Database

Draft

Landing page (Discover - Create the components for the post/feeds design)

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Landing page (Discover - UI designs, block of the countries, animations)

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MongoDB Research Implementation

+ Add item

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MongoDB Research Implementation

+ Add item

# Current State of Development

OnTheGO! | Ike44 / Projects / OnTheGO! 6

OnTheGO!

Backlog | Priority board | Team items | Roadmap | In review | My items | + New view

Filter by keyword or by field

Backlog 1/5 (Estimate: 0)	Ready 0 (Estimate: 0)	In progress 0/3 (Estimate: 0)	In review 0/5 (Estimate: 0)	Done 40 (Estimate: 0)
This item hasn't been started	This is ready to be picked up	This is actively being worked on	This item is in review	This has been completed
<ul style="list-style-type: none"><li>Draft</li><li>Deploy to the cloud</li></ul>				<ul style="list-style-type: none"><li>Draft: Grab the ping map for the location being searched to be displayed on the search results page on the right side</li><li>Draft: Image upload functionality (one image)</li><li>Draft: Header and footer-template to use for every page, separate files for both header and footer</li><li>Draft: UI for create a post (margin match discover page)</li><li>Draft: External email response to customer email when they fill their info in contact us</li><li>Draft: The countries images on the Discover page act as another filter when clicked on direct to posts only on that country</li><li>Draft: Make "Myplanner" function</li><li>Draft: Design filter for the posts without function</li><li>Draft: Design of the post once clicked on</li><li>Draft: GoogleMaps support</li><li>Draft: Finalize schema for create post</li></ul>
+ Add Item	+ Add Item	+ Add Item	+ Add Item	+ Add Item

OnTheGO! | Ike44 / Projects / OnTheGO! 6

OnTheGO!

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# Current State of Development Cont

**OnTheGO!**

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+ Add Item	+ Add Item	+ Add Item	+ Add Item	+ Add Item

# Lessons Learned



- **Interdisciplinary collaboration:** Leveraging diverse strengths within the team optimized progress and fostered a more comprehensive approach to problem-solving.
- **Flexibility:** Maintaining adaptability and swiftly adjusting strategies kept the project on course, even in the face of unexpected challenges or changing requirements.
- **Exploration:** Embracing curiosity and actively seeking out innovative technologies and methodologies led to more creative and efficient solutions.
- **Time management:** Balancing busy schedules and prioritizing features effectively ensured timely delivery while accommodating team members' varying availabilities.
- **Technical skill development:** Actively pursuing opportunities to learn new technologies and enhance existing skills throughout the project lifecycle to improve both individual and team capabilities.

## GitHub Link



***<https://github.com/Ike44/OnTheGO>***