

Student Name	Date	Date	Number of Hours	Description of Work Done	Reference
Everyone	1/17/25 6:00 PM	Jan 17, 2025	1	Meeting. Distribution of work. Choosing team lead. Decide on the app. -> GitHub Repo -> Misc -> Applied Research_ Logo and Name Research.pdf	
Russell Han Josef	1/18/25 4:00 PM	Jan 18, 2025	1	Planning on the project scope and role distribution.	
Russell Han Josef	1/20/25 8:30 PM	Jan 20, 2025	1.5	Research on screens to have. Finding screens inspiration. App name and branding.	
Simone Lue	1/20/25 9:00 PM	Jan 20, 2025	1	Project Proposal Draft writing - Started the introduction section.	
Simone Lue	1/21/25 6:00 PM	Jan 21, 2025	2	Project Proposal writing - Finalizing draft writing -> Proposed Research Project, Project Planning and Timeline, Project Contract - Proposal in Github Repo -> ReportsAndDocuments -> SimoneL_Proposal.pdf	
Simone Lue	1/22/25 10:00 AM	Jan 22, 2025	2	Figma initialization, developing wireframes, general idea of screens	
Russell Han Josef	1/22/25 10:00 AM	Jan 22, 2025	2	Research on Heroku Dynos and Postgres workflow	
Simone Lue	1/22/25 2:00 PM	Jan 22, 2025	1	Wireframe for homepage	
Russell Han Josef	1/22/25 4:30 PM	Jan 22, 2025	1	Researched about conducting surveys and user testing.	
Russell Han Josef	1/22/25 5:30 PM	Jan 22, 2025	1	Created survey questionnaires and shared using Microsoft Forms. -> Github Repo -> Misc -> Form_Exploration App Survey_Help Us Build Your Dream Travel Planner.pdf	
Simone Lue	1/24/25 7:30 PM	Jan 24, 2025	1	Wireframing for quiz screens	
Simone Lue	1/25/25 12:00 PM	Jan 25, 2025	0.5	Finalized proposal, ready for submission	
Russell Han Josef	1/25/25 8:00 PM	Jan 25, 2025	2	Commit Git for Proposal.pdf. Researched for APIs: OpenAI gpt model to use, Google Places, Google Maps, Eventbrite, OpenWeatherMap. Get all the API Keys needed.	
Simone Lue	1/27/25 7:00 PM	Jan 27, 2025	2	Wireframing screens: interactive maps, chatbot, my trips -> Github Repo -> Misc -> Figma Wireframes.png	
Everyone	1/27/25 10:00 PM	Jan 27, 2025	0.5	Regroup to discuss about the progress and knowledge sharing: Wireframe, APIs.	
Russell Han Josef	1/28/25 3:00 PM	Jan 28, 2025	0.5	Get Free credits from Heroku account using GitHub for Student Developer Pack	
Russell Han Josef	1/28/25 3:30 PM	Jan 28, 2025	2	Researched on Database Schema. Learned more about PostgreSQL vs Microsoft SQL vs MySQL. Then Firebase NoSQL. Learned about Hybrid Architecture Approach with both PostgreSQL and NoSQL. Exported 2 diagrams. -> GitHub Repo -> Misc -> WayPoint-SQL-Schema.png -> GitHub Repo -> Misc -> WayPoint-NoSQL-Schema.png	here
Russell Han Josef	1/28/25 7:30 PM	Jan 28, 2025	1	Created Video to share surveys on Instagram. Link: https://www.instagram.com/reel/DFXOyODRLOI/?igsh=ZnF4OWhqbTk0NnVx	
Russell Han Josef	1/29/25 9:30 AM	Jan 29, 2025	1	Get more insights from Prof. Priya in how do we approach surveys collected and user testing if user doesn't reside in a same country.	
Simone Lue	1/31/25 3:12 PM	Jan 31, 2025	3	Research on Reactive Native Expo vs CLI, environment setup and ways to start a project + gluestack v2 ui. Decided on React Native CLI as it was more suitable for the project scope	
Simone Lue	2/1/25 9:00 AM	Feb 01, 2025	2	Started and added frontend project shell to github. Encountered issues with the folder structuring when adding to github: Empty folder was being pushed to github instead of with the code. Had to restructure multiple times before successful	
Russell Han Josef	2/3/25 9:30 PM	Feb 03, 2025	1.5	Created backend shell. Tested the shell and it's running. Pushed to GitHub repo.	
Everyone	2/3/25 11:00 PM	Feb 03, 2025	1	Regroup to discuss about Database Schema of PostgreSQL and NoSQL. Update on the frontend shell. Update on the backend shell. Troubleshoot how to run ios on the machine on the first time pulling. Ensure frontend shell can work on both machines. Tasks assignment for the upcoming week.	

Russell Han Josef	2/4/25 12:00 AM	Feb 04, 2025	1	<p>Frontend shell wasn't working on Russell's machine. Troubleshooting. Cocoapods installed but pod wasn't installed successfully.</p> <p>Finding: XCode wasn't install properly. When running <code>xcode-select -p</code> on terminal. It showed other thing than <code>"/Applications/Xcode.app/Contents/Developer"</code></p> <p>Details: The problem was that the path to the Xcode command-line tools was not correctly set, causing the <code>xcrun</code> command to be unable to locate the iOS SDK (iphoneos). This resulted in the error message: SDK "iphoneos" cannot be located. Code to run: <code>sudo xcode-select -s /Applications/Xcode.app/Contents/Developer</code></p>
Russell Han Josef	2/4/25 9:30 AM	Feb 04, 2025	2.5	<p>I encountered an issue while deploying my FastAPI app to Heroku. The deployment failed with a <code>ModuleNotFoundError</code> for the backend module. After investigating, I realized that the folder containing the app was named <code>Implentation</code> with a capital "I", but the <code>Procfile</code> was referencing it as <code>implementation</code> with a lowercase "i". Instead of renaming the folder, I updated the <code>Procfile</code> to correctly reference the folder name with the capital "I" as it appeared in the project. After this update, the deployment was successful, and the app was properly hosted on Heroku.</p>
Russell Han Josef	2/4/25 1:30 PM	Feb 04, 2025	1	<p>Problem: Setting up PostgreSQL was challenging, especially connecting pgAdmin to both my local database and Heroku's remote database. I struggled with authentication issues, missing roles, and ensuring my tables were correctly created in both environments.</p> <p>Solution: I configured my local PostgreSQL by setting the correct roles and connected pgAdmin to Heroku using the provided <code>DATABASE_URL</code>. I ensured the database schema was consistent across both environments and created tables using <code>SQLAlchemy</code>.</p> <p>Explanation: This helped me understand how PostgreSQL differs locally and on Heroku, how to manage database credentials, and how to properly set up pgAdmin for database administration.</p>
Russell Han Josef	2/4/25 2:30 PM	Feb 04, 2025	1	<p>Problem: Deploying to Heroku failed due to an incorrectly placed <code>Procfile</code>, missing dependencies in <code>requirements.txt</code>, and misconfigured environment variables like <code>DATABASE_URL</code> and <code>SECRET_KEY</code>.</p> <p>Solution: I moved <code>Procfile</code> to the root directory, updated <code>requirements.txt</code>, and set <code>DATABASE_URL</code> correctly in Heroku's environment variables. Restarting the Heroku dyno applied these fixes.</p> <p>Explanation: This taught me the importance of directory structure and configuration files in deployment and how to debug deployment failures using <code>heroku logs --tail</code>.</p>

Russell Han Josef	2/4/25 3:30 PM	Feb 04, 2025	2	<p>Problem: After fixing deployment, my app still crashed on Heroku (H10 App Crashed) due to SQLAlchemy not recognizing Heroku's DATABASE_URL format and FastAPI failing to bind to the correct port.</p> <p>Solution: I modified db.py to convert postgres:// to postgresql://, ensuring SQLAlchemy could connect. I also updated Procfile to bind FastAPI to Heroku's \$PORT.</p> <p>Explanation: This reinforced the differences between local and production environments, the need for dynamic configurations, and how Heroku manages deployments and environment variables.</p>
Simone Lue	2/6/25 10:00 PM	Feb 06, 2025	1.5	Started on the Quiz Screen component: Adding pressable buttons and sorting out the general layout of the text and buttons
Simone Lue	2/7/25 6:00 PM	Feb 07, 2025	2.5	<p>Completed QuizScreen and the styling file for it.</p> <p>Added:</p> <ul style="list-style-type: none"> - Back/Next button for navigation between questions. - Back button not visible on the first question - Progress bar to visually represent questions done/left - Color change when button is selected - Have a couple of example questions set as placeholders
Simone Lue	2/8/25 3:00 PM	Feb 08, 2025	2	<p>Started on the layout of the HomeScreen as well as its corresponding styling file.</p> <p>Added:</p> <ul style="list-style-type: none"> - Search bar (text input) - Horizontal scroll for 'My Trips' (with placeholder trips set + default card for when there are no current trips added) <p>Problems encountered:</p> <ul style="list-style-type: none"> - Had trouble with using Carousel (react-native-snap-carousel) <ul style="list-style-type: none"> - The dependencies had conflicts and version compatibility issues, specific issues with propTypes - Nothing was working <p>Alternate solution:</p> <ul style="list-style-type: none"> - Used FlatList with horizontal scrolling instead
Simone Lue	2/8/25 9:00 PM	Feb 08, 2025	2	<p>Started on the bottom navigation menu -></p> <p>Problem: Tried using external library for icons but icons would not show up properly (Question mark in the middle of a box shows up)</p> <ul style="list-style-type: none"> - Issues with linking fonts with Xcode <p>Alternate plan: For now I am using emojis as a placeholder icon, will revisit adding external library of icons at a later time</p> <p>Bottom Navigation now has seamless navigation between Home and Quiz screens -></p> <p>Quiz screen to be replaced at a later time, currently acting as a placeholder for other screens</p>
Russell Han Josef	2/9/25 7:30 PM	Feb 09, 2025	1	Created travel style quiz. Total 7 questions. Scoring system using point-based system.

Everyone	2/10/25 8:00 PM	Feb 10, 2025	2	<p>Regroup / Knowledge Sharing session.</p> <p>Russell:</p> <ul style="list-style-type: none"> - Explained how the backend works for PSQL part. - Explained how to use pqAdmin tool as database management tool. - Explained the workflow with backend: when writing new code for backend, test it on local machine before pushing to Github. - Showed how deployment works with Github - Heroku setup. <p>General:</p> <ul style="list-style-type: none"> - Discussed the next workflow in tackling MVPs. - Discussed to re-order MVP priority based on survey. <p>Task Assignments:</p>
Simone Lue	2/11/25 11:30 PM	Feb 11, 2025	2.5	<p>Started on the backend for the quiz MVP -> quiz model, schema, api and routing</p> <p>Problem: Had trouble with the database setup/running it on my local machine and connecting to postgresql</p> <p>Solution: After consulting with Russell on the setup, server is able to run on my local device. Next step is to make sure that front end is connecting properly to the back end and able to pass information -> update to local database and make sure it is functioning as intended</p>

Russell Han Josef	2/11/25 1:30 PM	Feb 11, 2025	3.5	<p>1. Foreign Key Dependency Issues Problem: Models had incorrect import order, causing foreign key errors. Solution: Adjusted import order in <code>__init__.py</code> to ensure dependencies load correctly.</p> <p>2. Circular Import Issue Problem: Importing Base from <code>db.py</code> led to circular dependencies. Solution: Moved Base to <code>base.py</code> and updated model imports.</p> <p>3. Missing email-validator Error Problem: FastAPI required email-validator, despite being in requirements.txt. Solution: Reinstalled dependencies manually on Heroku.</p> <p>4. uvicorn: command not found on Heroku Problem: uvicorn was missing in the runtime environment. Solution: Updated Procfile to use <code>python -m uvicorn</code> and verified installation.</p> <p>5. Heroku App Not Restarting Properly Problem: Deployment changes weren't reflecting. Solution: Restarted the app and purged Heroku build cache.</p> <p>6. App Not Binding to \$PORT Problem: FastAPI wasn't binding correctly to the environment port. Solution: Ensured uvicorn runs with <code>--port=\${PORT}</code> in Procfile.</p> <p>7. Database Connection Test Failed on Heroku Problem: Remote database connection wasn't verifying. Solution: Created <code>/test-db</code> endpoint and confirmed it works.</p>
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Russell Han Josef	2/11/25 5:00 PM	Feb 11, 2025	0.5	<p>Running db.py to Create Tables on Heroku: Problems & Solutions</p> <p>1. Running db.py on Heroku caused ModuleNotFoundError: No module named 'app' Fix: Used <code>PYTHONPATH=. python app/db/db.py</code> to ensure the correct module path.</p> <p>2. Tables were not appearing in Heroku Postgres after running db.py Fix: Explicitly set <code>Base.metadata.schema = "public"</code> in db.py to ensure tables are placed in the correct schema.</p> <p>3. Needed a way to manually trigger db.py on Heroku Fix: Opened a Heroku shell with <code>heroku run bash -a waypoint-travel</code>, then executed: <code>PYTHONPATH=. python app/db/db.py</code></p> <p>4. Wanted to verify if tables were created in Heroku Postgres Fix: Used Heroku Postgres CLI to check tables: <code>heroku pg:psql -a waypoint-travel</code> <code>SELECT tablename FROM pg_tables WHERE schemaname = 'public';</code></p> <p>Final Outcome: Successfully ran db.py on Heroku, ensuring tables were created in the correct schema.</p>
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Russell Han Josef	2/12/25 10:00 AM	Feb 12, 2025	1.5	<p>Summary of Fixes & Progress</p> <ol style="list-style-type: none"> 1. CRUD Implementation for Users <ul style="list-style-type: none"> Created POST /users → Create User (with password hashing). Created GET /users/{user_id} → Retrieve User by ID. Created PUT /users/{user_id} → Update User (name, email, password). Created DELETE /users/{user_id} → Delete User. 2. Fixed Errors <ul style="list-style-type: none"> InvalidRequestError → Added ForeignKey("users.id") in quiz_model.py. TypeError: 'password' is an invalid keyword argument for User → Ensured password_hash is used in user_model.py. NameError: name 'user_schema' is not defined → Fixed incorrect import in user_routes.py. zsh: no matches found: passlib[bcrypt] → Installed using pip install "passlib[bcrypt]". 3. Fixed Duplicate URL Path Issue <ul style="list-style-type: none"> Issue: "/users/users/{user_id}" in FastAPI /docs. Fix: Removed redundant /users prefix from routes in user_routes.py. 4. Tested Locally <ul style="list-style-type: none"> Verified all CRUD operations using FastAPI /docs. Confirmed correct URL paths after fixing duplication. <p>Next Steps</p> <p>Test CRUD operations for Itineraries, Places, Badges, and Quiz Results.</p> <p>Once confirmed, deploy to Heroku and re-test on live API.</p>
Russell Han Josef	2/12/25 11:30 AM	Feb 12, 2025	1	<p>Log Summary for Places CRUD Implementation</p> <ol style="list-style-type: none"> 1. Implemented CRUD for Places <ul style="list-style-type: none"> Created POST /places → Add a new place. Created GET /places/{id} → Retrieve a place by ID. Created PUT /places/{id} → Update place details. Created DELETE /places/{id} → Remove a place. 2. Fixed Issues <ul style="list-style-type: none"> Fixed timezone inconsistency → Ensured last_updated is stored in UTC. Resolved datetime.utcnow() deprecation warning → Used datetime.now(timezone.utc).replace(tzinfo=None). Verified timestamps consistency → Matched last_updated with created_at format. 3. Successfully Tested <ul style="list-style-type: none"> POST /places → Verified place creation with manual data. GET /places/{id} → Retrieved created places correctly. PUT /places/{id} → Updated place details without timezone mismatch. DELETE /places/{id} → Successfully removed places from the database. <p>Next Steps</p> <p>Implement User Favorites (user_favorite_routes.py).</p> <p>Ensure Users ↔ Places relationship works correctly.</p> <p>Prepare for Google Places API integration.</p>

Russell Han Josef	2/12/25 3:30 PM	Feb 12, 2025	0.5	<p>Log Summary for User Favorites Implementation</p> <ol style="list-style-type: none"> 1. Implemented CRUD for User Favorites <ul style="list-style-type: none"> Created POST /user_favorites → Add a place to favorites. Created GET /user_favorites/{user_id} → Retrieve a user's favorite places. Created DELETE /user_favorites/{favorite_id} → Remove a favorite place. 2. Fixed Issues <ul style="list-style-type: none"> Validated user and place existence before adding a favorite. Prevented duplicate favorites by checking existing records. Ensured added_at timestamp is stored in UTC for consistency. 3. Successfully Tested <ul style="list-style-type: none"> POST /user_favorites → Added places to favorites successfully. GET /user_favorites/{user_id} → Retrieved correct favorites for users. DELETE /user_favorites/{favorite_id} → Removed favorites as expected. 4. Updated main.py <ul style="list-style-type: none"> Included user_favorite_routes in FastAPI router. <p>Next Steps</p> <ul style="list-style-type: none"> Implement Badges (badge_routes.py). Ensure User ↔ Badges relationship works correctly.
Russell Han Josef	2/12/25 4:00 PM	Feb 12, 2025	1.5	<p>Set Up Google Places API Integration</p> <p>Chose Google Places API (Old Version) for simpler API key authentication. Tested API manually using Postman & cURL. Implemented FastAPI Route for Places Search</p> <p>Created /places/search endpoint to fetch nearby places. Integrated Google Places API (maps.googleapis.com). Cached results in PostgreSQL to reduce API calls. Restricted API to British Columbia (BC), Canada</p> <p>Implemented latitude/longitude boundary check to block requests outside BC. Verified restriction by testing New York (Successfully blocked).</p> <p>Error Handling & Optimizations</p> <p>Improved handling for invalid locations and API failures. Implemented database caching to avoid redundant API requests. Added X-Goog-FieldMask to optimize API responses. Tested & Debugged API Responses</p> <p>Verified working results for Vancouver, BC. Ensured API key security using environment variables (.env, Heroku Config Vars).</p>

Russell Han Josef	2/13/25 10:00 AM	Feb 13, 2025	1.5	<p>Tasks Completed:</p> <ul style="list-style-type: none"> - Configured React Navigation with StackNavigator & BottomTabNavigator. - Created Login & Signup screens with placeholder values. - Implemented Profile screen with user details, Edit Profile (future), and Log Out. - Built Settings screen with Travel Style, Notifications, Language, and Account Management. - Used SafeAreaView & ScrollView to fix UI layout issues. - Replaced deprecated Picker with @react-native-picker/picker. - Ensured dynamic spacing to prevent overlap with iPhone Dynamic Island. <p>Next Steps:</p> <ul style="list-style-type: none"> - Implement Edit Profile feature. - Add form validation for Login & Signup. - Prepare backend integration for authentication and profile updates. - Enhance UI with better styling.
Russell Han Josef	2/13/25 11:30 AM	Feb 13, 2025	0.75	<p>Tasks Completed:</p> <ul style="list-style-type: none"> - Backend Integration for Authentication: <ul style="list-style-type: none"> - Reviewed backend schemas, models, and routes. - Confirmed API endpoint for user registration (POST /users/). - Identified and fixed login API endpoint (POST /users/auth/login). - Updated SignupScreen.js: <ul style="list-style-type: none"> - Connected to backend (POST /users/) for user registration. - Handled form submission, API request, and error handling. - Added navigation to Login screen upon successful signup. - Updated LoginScreen.js: <ul style="list-style-type: none"> - Integrated POST /users/auth/login using query parameters. - Ensured login request matches the correct FastAPI route. - Redirects users to Main app upon successful login. - Displays alerts for errors and invalid credentials. - Backend API Testing & Debugging: <ul style="list-style-type: none"> - Successfully tested user registration and login via FastAPI. - Ensured POST /users/auth/login worked with query parameters. - Verified API response handling in React Native app. <p>Next Steps:</p> <ul style="list-style-type: none"> - Implement persistent authentication (store session/token). eg. JWT - Add form validation for signup & login fields. - Enhance UI styling & error messages for better user experience. - Implement Edit Profile feature in ProfileScreen.js.

Russell Han Josef	2/13/25 12:45 PM	Feb 13, 2025	2.25	<p>Attempted to rename React Native app from "frontend" to "WayPoint" → Encountered issues, reverted to "frontend"</p> <p>Updated package.json and app.json to reflect the correct app name → Reverted due to build errors</p> <p>Checked and updated Xcode Signing & Capabilities → Used free Apple ID for provisioning</p> <p>Attempted to set correct Bundle Identifier for Firebase setup → Reverted due to build failures</p> <p>Installed Firebase dependencies (@react-native-firebase/app) → Successfully installed</p> <p>Fixed CocoaPods issues with modular headers → Modified Podfile and ran pod install --repo-update</p> <p>Configured Firebase in AppDelegate.swift → Updated to FirebaseApp.configure()</p> <p>Encountered xcodebuild error code 65 while running iOS build → Attempted multiple fixes</p> <p>Deleted and reinstalled CocoaPods, node_modules, and Xcode DerivedData → No success</p> <p>Manually deleted ios/build/ and cleaned Xcode project → Issue persisted</p> <p>Ran xcodebuild clean and pod install --repo-update → Did not resolve the issue</p> <p>Tried running the app via Metro Bundler (npx react-native run-ios) → Still failed</p> <p>Decided to fully reset the project by deleting and reinstalling all dependencies → Still encountering build issues</p>
Simone Lue	2/13/25 8:00 PM	Feb 13, 2025	3.5	<p>- Built the look for the quiz results on Figma</p> <p>- Adding the code and styling for the results display to QuizScreen.js and QuizScreenStyles.js</p> <p>- Will dynamically display the type of traveler depending on the quiz scoring logic from the quiz</p> <p>- Added an "x" button that will take user back to the home page after seeing the results</p> <p>Problems Encountered:</p> <p>- Tried to do a share button functionality where user will be able to save the results as an image to their camera roll. This didn't work out as there were Xcode dependencies that conflicted with my system. Had to remove this functionality. Can revisit once the MVP is complete</p> <p>- Dependencies that were added to do this share implementation were not completely erased and repeatedly threw errors as it was still somewhere in the files.</p> <p>Solutions and Alternatives:</p> <p>- Had to remove node modules and reinstall dependencies and pod files multiple times to get rid of the errors.</p> <p>Next Steps:</p> <p>- Send quiz results to the backend and save it to the database</p> <p>- Have the option to retake quiz and erase results previous from the backend</p> <p>- (Optional once MVP is complete) Retry the share functionality</p>

Russell Han Josef

2/14/25 2:00 PM

Feb 14, 2025

4

Summary Log: Firebase Realtime Database Setup & Next Steps

Problems:

Multiple React-Core dependencies causing conflicts

React-RCTAppDelegate not linking correctly

FirebaseAuth/FirebaseAuth-Swift.h file not found (even though not needed)

Xcode build error: "unable to initiate PIF transfer session"

ReactCommon module redefinition error

CocoaPods installation issues

Solutions Attempted:

Refactored Podfile to use use_modular_headers! and fixed React-Core conflicts

Updated AppDelegate.swift with FirebaseApp.configure()

Removed and reinstalled dependencies (node_modules, Pods, Podfile.lock)

Cleared Xcode cache (DerivedData, xcodebuild clean)

Ensured only needed Firebase modules were installed

What's Next:

Start fresh to ensure a clean build

Get React Native running first before adding Firebase

Verify Podfile with default settings, then add Firebase

Test a basic build (npx react-native run-ios) before integrating Firebase features

Implement Firebase Realtime Database CRUD to confirm it works

Next attempt: Clean setup from the beginning

Russell Han Josef

2/14/25 7:00 PM

Feb 14, 2025

1.5

Work Log: Firebase Integration in React Native (iOS)

Problems & Solutions

Firebase Not Initializing (No Firebase App '[DEFAULT]' has been created)

Firebase was not auto-detecting GoogleService-Info.plist.

Manually initialized Firebase in firebase.js.

Firebase connected successfully using manual config.

Missing or Invalid FirebaseOptions property 'apiKey' Error

Firebase could not find apiKey from GoogleService-Info.plist.

Verified plist format and corrected key names.

Ensured plist was inside Implementation/frontend/ios/.

Linked plist in Xcode under Build Phases → Copy Bundle Resources.

Still using manual config; plist auto-detection needs verification.

Firebase Data Not Appearing in Realtime Database

Firebase connection worked, but no data appeared.

Updated Firebase database rules to allow reads/writes.

Created a test function in LoginScreen.js to write data.

Confirmed successful data write to Firebase Console.

Next Steps

Remove manual Firebase config and verify plist auto-detection.

Fetch and display a list of data from Firebase.

Secure Firebase Database rules based on authentication.

Russell Han Josef	2/14/25 8:30 PM	Feb 14, 2025	0.5	Work Log: Firebase Auto-Detection Fix in React Native (iOS)
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Problems & Solutions

Firebase Not Initializing Automatically

Firebase was not detecting GoogleService-Info.plist.

Manually initialized Firebase in AppDelegate.swift.

Confirmed Firebase auto-detection now works.

Missing Firebase Setup in AppDelegate.swift

React Native Firebase requires Firebase to be initialized in AppDelegate.swift.

Added FirebaseApp.configure() inside didFinishLaunchingWithOptions.

Restarted the app and confirmed successful Firebase initialization.

Plist File Not Being Read by Xcode

GoogleService-Info.plist was not linked in Build Phases → Copy Bundle Resources.

Manually added the plist file in Xcode.

Verified correct plist location in Implementation/frontend/ios/.

Next Steps

Fetch and display data from Firebase in the app.

Secure Firebase database rules based on authentication.

hi

Simone Lue

2/15/25 1:30 PM

Feb 15, 2025

2

Trying to send data to the backend and save the travel style pertaining to the user

- Using AsyncStorage to save and retrieve the user_id upon successful logins

Problem:

- There were AsyncStorage runtime errors due to it not being properly linked

- This was due to CocoaPods gem error -> broken or outdated Ruby gem

Solution:

- Reinstalled and updated ruby gem

- Reinstalled cocoa pods

- Reinstalled iOS pods

- No runtime errors for AsyncStorage now

Trying to retrieve userId from the user's login session

- Created a method in QuizScreen.js to retrieve userId

- Successfully able to retrieve userId

Trying to send quiz results to the backend

- Modified api for posting quiz results

- Created method in QuizScreen.js to send results to the backend

Problem:

- 404 Error: api endpoint does not exist or incorrect

Next step: Fix the connection to API endpoint

Simone Lue	2/16/25 2:00 PM	Feb 16, 2025	1.5	<p>Fixing the connection to API endpoint</p> <ul style="list-style-type: none"> - Need to send the quiz results to the back end <p>Problem:</p> <ul style="list-style-type: none"> - 404 Error: api endpoint does not exist or incorrect <p>Solution:</p> <ul style="list-style-type: none"> - main.py had “/quiz_results” as the router prefix - quiz_routes.py had “/quiz_results” as the route - To send the results to the quiz_results table, the quiz results endpoint should be <code>`\${API_BASE_URL}/quiz_results/quiz_results`</code> instead of <code>`\${API_BASE_URL}/quiz_results`</code> - Changed the endpoint to “/” --> proper full endpoint is now <code>`\${API_BASE_URL}/quiz_results/`</code> - The results are now stored in the quiz_results table with the correctly retrieved userId and travelStyle <p>When the user redoes the quiz, the results save as a new row in the table rather than updating the existing record</p> <ul style="list-style-type: none"> - Need to update the record instead of making a new row - Modified POST “/” in quiz_routes.py to check if a result already exists for the user, update it if it exists - Now successfully modifies the record instead of creating a new one <p>Next Steps:</p> <ul style="list-style-type: none"> - Add frontend option for user to retake quiz. - Fix scoring logic for when users navigate backwards during the quiz. - Users should not be able to move on to the next question without selecting an answer
Simone Lue	2/17/25 12:00 AM	Feb 17, 2025	1	<p>Added frontend option for user to retake quiz:</p> <ul style="list-style-type: none"> - Added retake quiz button code and styles - Added a method to trigger onPress to handle resetting all scores quiz UI - New quiz results are being sent to backend, updating the user’s travel style <p>Next/Submit buttons are ‘disabled’ without selecting an answer</p> <ul style="list-style-type: none"> - Added disabled button styling - Modified handleNextQuestion() to prevent moving forward when selectedAnswer is null <p>Next Steps:</p> <ul style="list-style-type: none"> - Fix scoring logic for when users navigate backwards during the quiz - When navigating backwards through questions, retain previously selected answer
Simone Lue	2/17/25 4:15 PM	Feb 17, 2025	0.5	<p>Analyzed and summarized survey results to determining high/medium/low priority features for the application.</p>

Simone Lue	2/17/25 4:45 PM	Feb 17, 2025	1.25	<p>Navigating backwards through questions, UI retains the previously selected answer</p> <ul style="list-style-type: none"> - Used an array to track selected answers instead of a single selectedAnswer state - Updated handleAnswerSelection to store answers in the new array (which the index corresponds to the question index) - Set the selected answer when navigating to the previous question - Modify handlePreviousQuestion to retrieve and display the stored selection. <p>Problem:</p> <ul style="list-style-type: none"> - Navigating forwards AFTER navigating backwards retains the selected answer previously selected <p>Solution:</p> <ul style="list-style-type: none"> - When moving forward after going backwards, clear future selections to ensure past choices aren't remembered. <p>Fix scoring logic for when users navigate backwards during the quiz. The current scoring logic does not automatically adjust the previous selection's score when changing an answer. Instead, it only adds points when selecting an option but does not remove points when an answer is changed</p> <ul style="list-style-type: none"> - Modified handleAnswerSelection to first try to subtract points from the answers that are being changed <p>Problem:</p> <ul style="list-style-type: none"> - This method of scoring retained the scores from the questions that remained unchanged and added on an additional point for the new selection (whether from the same category or not) <p>Solution:</p> <ul style="list-style-type: none"> - Modify handleAnswerSelection to build scores from the remaining selections instead of subtracting points one by one - Modify handlePreviousQuestion and handleNextQuestion to reset scores of future selections when moving forward after going back.
Everyone	2/17/25 10:30 PM	Feb 17, 2025	1.25	<p>Meeting Notes Summary (February 17, 2025)</p> <ol style="list-style-type: none"> 1. Upcoming 1-Week Tasks <p>Focus on the next two MVPs:</p> <p>Personalized Recommendations (Google Places API integration for recommendations)</p> <p>Interactive Map (Google Maps API integration for visualization)</p> <ol style="list-style-type: none"> 2. Past Week Progress Updates <p>Team members shared knowledge and updates on completed tasks.</p> <ol style="list-style-type: none"> 3. Heroku Backend Server Documentation <p>Discussion on CRUD operations for backend endpoints</p> <ol style="list-style-type: none"> 4. Connecting Simulator to Heroku Server <p>Setting up the React Native simulator to interact with the backend hosted on Heroku.</p> <ol style="list-style-type: none"> 5. Planning for Video Workflow <p>Outlining the video workflow for the mid-term report.</p> <p>Deciding on tools and steps for video creation.</p> <ol style="list-style-type: none"> 6. Firebase Realtime Database & App Distribution <p>Revisiting Firebase Realtime Database setup.</p> <p>Setting up Firebase App Distribution for testing.</p> <ol style="list-style-type: none"> 7. Google Places API on /search Path <p>Integrating Google Places API for search functionality.</p> <p>Ensuring that the API can return filtered results based on user preferences.</p>

Simone Lue

2/20/25 7:00 PM

Feb 20, 2025

2

Implementing personalized recommendations feature

- Built a FastAPI route (/places/recommendations) to fetch places based on user preferences.
- Integrated Google Places API to get places based on user travel style (quiz results).
- Stored cached places in PostgreSQL to reduce API calls.

Problem 1: 422 Error (Unprocessable Entity)

- FastAPI expected user_id as an integer, but it was sent as a string.

Solution:

- Ensured user_id is an integer

Problem 2: 404 Error

- FastAPI couldn't find user_id in quiz_results, even though it existed in PostgreSQL
- The backend was using the local database instead of Heroku.
- FastAPI was querying the wrong database (local waypoint_db instead of Heroku).

Solution:

- Connected FastAPI to Heroku Postgres by updating .env database_url

Problem 3: API Route Conflict

- FastAPI treated /recommendations as {place_id}, causing a 400 Bad Request.
- The dynamic route @place_router.get("/{place_id}") was above /recommendations, so FastAPI assumed "recommendations" was a place_id.

Solution:

- Reordered routes in place_routes.py

!!Confirmed API is working!!

- FastAPI backend is using Heroku Postgres instead of local PostgreSQL.
- Recommendations API (/places/recommendations) now works as expected.

Simone Lue	2/20/25 9:00 PM	Feb 20, 2025	2	<p>Built Recommended Places screen and styling</p> <p>Connecting frontend UI to make API requests to display the recommendations:</p> <ul style="list-style-type: none"> - Developed methods to fetch recommendations - Developed filter options - Switched back to local to work on the app <p>Problem: app UI was not displaying results</p> <ul style="list-style-type: none"> - The frontend was now receiving an empty array upon making requests <p>Solution:</p> <ul style="list-style-type: none"> - Debugging logs indicated that google places was denying the requests due to invalid api key - Realized Heroku was configured with google places api but not locally - Added API key in .env and was able to retrieve the recommendations which reflected in the UI <p>Next Steps:</p> <ul style="list-style-type: none"> - Images for the recommended places are not found- need to fix - Refine filters - Make sure recommendations work for all travel styles
Simone Lue	2/21/25 3:00 PM	Feb 21, 2025	2	<p>Fixing the photo display on the recommendations screen</p> <ul style="list-style-type: none"> - Logs show that the image can not be found - At first, thought it was the API key not being used in the frontend so it was restricting access to images, but upon correcting that, images were still not loading - Adjusted the method for image rendering a couple times and one finally worked (not too sure why) - Images now loading with the recommendations

Simone Lue

2/21/25 5:00 PM

Feb 21, 2025

1

Making sure recommendations work for all travel styles:

- Matching the different travel styles correctly to TRAVEL_STYLE_MAPPING
- Had to rename the some of the keys to match the recognized travel styles

Adjusting the displayed emoji for each travel style

- Tried to do multiple emojis for combined travel styles but it offset the styling
 - Alternative: Selected one emoji best fit for different combined styles instead
- Fixed the missing emoji for "No travel style"
- Fixed the awkward wording for some of the travel styles such as "You are a You didn't align with any specific travel style Traveler"
 - Modify the return inside QuizScreen.js so that the formatting dynamically adjusts

Next Steps:

- Recommendations displaying for mixed travel styles
- Recommendations fetch new results after travel style changes
- Make sure the filters work

Russell Han Josef	2/22/25 10:30 PM	Feb 22, 2025	2	<p>Fixes & Improvements in SettingsScreen.js and Backend</p> <p>Initial Issues & Fixes</p> <p>Login Issues (422 Unprocessable Content)</p> <p>Issue: FastAPI rejected login requests due to incorrect request body formatting.</p> <p>Fix: Ensured email and password were correctly passed in the axios.post request in LoginScreen.js.</p> <p>User Data Not Persisting After Login</p> <p>Issue: Logged-in user details were not being saved for profile and settings.</p> <p>Fix: Stored user data in AsyncStorage after a successful login.</p> <p>Navigating to Home Screen After Login (REPLACE Error)</p> <p>Issue: navigation.replace('HomeScreen') failed due to missing screen.</p> <p>Fix: Updated App.js to correctly route users to Main after login.</p> <p>Backend Issues & Fixes</p> <p>Travel Style Not Saving (422 Unprocessable Content)</p> <p>Issue: FastAPI expected user_id in the request body for PUT requests.</p> <p>Fix:</p> <p>Created QuizResultUpdate schema to accept only travel_style.</p> <p>Modified PUT /quiz_results/user/{user_id} to update travel style correctly.</p> <p>Fetching Travel Style for User Settings</p> <p>Issue: Travel style was not being retrieved from PostgreSQL.</p> <p>Fix:</p> <p>Created GET /quiz_results/user/{user_id} to fetch travel style.</p> <p>Updated SettingsScreen.js to call this API and store the result in AsyncStorage.</p>
Russell Han Josef	2/22/25 2:00 PM	Feb 22, 2025	1	<p>Drafted video recording flow.</p>
Russell Han Josef	2/22/25 3:00 PM	Feb 22, 2025	0.5	<p>Fixed QuizScreen and LoginScreen to ensure first time user is able to take the quiz and save it correctly.</p>

Russell Han Josef	2/23/25 1:00 PM	Feb 23, 2025	3	<p>Google Maps Integration on iOS</p> <p>Problem: Needed to integrate Google Maps SDK for iOS. Solution: Installed and configured Google Maps SDK (v7.0.0).</p> <p>Problem: API key was stored in Info.plist, causing security issues. Solution: Moved API key to .env and dynamically loaded it in AppDelegate.swift.</p> <p>Problem: "Tried to register two views with the same name AIRMap" error. Solution: Ensured only one instance of react-native-maps to fix duplicate registration.</p> <p>Problem: API key needed to be dynamically passed to Swift. Solution: Updated Podfile to load .env variables and inject API key into the build.</p> <p>Problem: Map was not displaying if the API key was missing. Solution: Added error handling to InteractiveMapScreen.js to show a message when the API key is missing.</p> <p>Problem: Needed to verify Google Maps displayed properly. Solution: Successfully displayed Google Maps centered on Vancouver, BC in the iOS simulator.</p> <p>Next Steps Implement user location tracking. Add custom markers for points of interest. Optimize map rendering and interactions. Test on a real iOS device for stability.</p>
Russell Han Josef	2/23/25 10:00 PM	Feb 23, 2025	2	Added markers with Google Places API.
Simone Lue	2/23/25 5:00 PM	Feb 23, 2025	4	<p>Midterm Report: Title page (complete), Introduction (complete), summary of initial proposed project (complete), changes to the proposal (complete), UPDATED project planning and timeline (IN PROGRESS: individual responsibilities; COMPLETED: Gantt chart, new proposed timelines, milestones, deliverables), Implemented Feature (IN PROGRESS: Login, Recommendations, Interactive Maps; COMPLETED: Quiz), Work Logs (IN PROGRESS), Closing and References (IN PROGRESS)</p> <p>Proposal changes: - Gantt Chart - Responsibilities - Timelines - MVPs Priority</p>
Russell Han Josef	2/24/25 10:00 AM	Feb 24, 2025	1	<p>Check on Firebase app Distribution.</p> <p>Upon checking, need to enrol in Apple Developer Program.</p> <p>Completed: Register for enrolment under educational institution. Request to waive the fee.</p> <p>What's next: Waiting for reply.</p>
Everyone	2/24/25 5:00 PM	Feb 24, 2025	1.75	Video Recording for Mid Term Report Checkpoint

Everyone	2/24/25 9:30 PM	Feb 24, 2025	2.5	Finishing and finalizing midterm report. Preparing documents for submission . Push log to the github.
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