Student Name	Date	Date	Number	Description of Work Done
			of Hours	
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
Simone Lue	1/22/25 2:00 PM	Jan 22, 2025	1	Wireframe for homepage
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
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
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
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 06, 2025	2.5	Completed QuizScreen and the styling file for it.
Simone Lue	2///25 0.00 FM	reb 07, 2023	2.5	Added:
				- 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	Started on the layout of the HomeScreen as well as its corresponding styling file.
Olinione Ede	2/0/20 0.00111	1 05 00, 2020	_	Added:
				- Search bar (text input)
				- Horizontal scroll for 'My Trips' (with placeholder trips set + default card for when there are no current trips added)
				Transcribed and the passence of the passence o
				Problems encountered:
				- Had trouble with using Carousel (react-native-snap-carousel)
				- The dependencies had conflicts and version compatibility issues, specific issues with propTypes
				- Nothing was working
				Alternate solution:
				- Used FlatList with horizontal scrolling instead

Simone Lue	2/8/25 9:00 PM	Feb 08, 2025	2	Started on the bottom navigation menu -> Problem: Tried using external library for icons but icons would not show up properly (Question mark in the middle of a box shows up) - Issues with linking fonts with Xcode Alternate plan: For now I am using emojis as a placeholder icon, will revisit adding external library of icons at a later time Bottom Navigation now has seamless navigation between Home and Quiz screens -> Quiz screen to be replaced at a later time, currently acting as a placeholder for other screens
Simone Lue	2/11/25 11:30 PM	Feb 11, 2025	2.5	Started on the backend for the quiz MVP -> quiz model, schema, api and routing  Problem: Had trouble with the database setup/running it on my local machine and connecting to postgresql  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
Simone Lue	2/13/25 8:00 PM	Feb 13, 2025	3.5	- Built the look for the quiz results on Figma - Adding the code and styling for the results display to QuizScreen.js and QuizScreenStyles.js - Will dynamically display the type of traveler depending on the quiz scoring logic from the quiz - Added an "x" button that will take user back to the home page after seeing the results  Problems Encountered: - 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 - 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.  Solutions and Alternatives: - Had to remove node modules and reinstall dependencies and pod files multiple times to get rid of the errors.  Next Steps: - Send quiz results to the backend and save it to the database - Have the option to retake quiz and erase results previous from the backend - (Optional once MVP is complete) Retry the share functionality

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 ADI and point
				Next step: Fix the connection to API endpoint

Simone Lue	2/16/25 2:00 PM	Fab 10, 0005	4.5	Fining the competing to ADI and point
Simone Lue	2/16/25 2:00 PM	Feb 16, 2025	1.5	Fixing the connection to API endpoint
				- Need to send the quiz results to the back end
				Problem:
				- 404 Error: api endpoint does not exist or incorrect
				Solution:
				- 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 `\${API_BASE_URL}/quiz_results/quiz_results ` instead
				of '\${API_BASE_URL}/quiz_results`
				- Changed the endpoint to "/"> proper full endpoint is now `\${API_BASE_URL}/quiz_results/`
				- The results are now stored in the quiz_results table with the correctly retrieved userId and travelStyle
				When the user redoes the quiz, the results save as a new row in the table rather than updating the existing record
				- 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
				Next Steps:
				- Add frontend option for user to retake guiz.
				- 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	Added frontend option for user to retake quiz:
Olifione Euc	2/1//2012.00/111	1 05 17, 2020	_	- Added retake guiz 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
				- New quiz results are being sent to backend, updating the user's traverstyte
				Next/Submit buttons are 'disabled' without selecting an answer
				- Added disabled button styling
				- Modified handleNextQuestion() to prevent moving forward when selectedAnswer is null
				Next Steps:
				- Fix scoring logic for when users navigate backwards during the quiz
				- When nagivating backwards through questions, retain previously selected answer
Simone Lue	2/17/25 4:15 PM	Feb 17, 2025	0.5	Analyzed and summarized survey results to determing high/medium/low priority features for the application.

Simone Lue	2/17/25 4:45 PM	Feb 17, 2025	1.25	Navigating backwards through questions, UI retains the previously selected answer
Simone Luc	2/1//254.45111	1 60 17, 2023	1.25	- Used an array to track selected answers instead of a single selected Answer 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.
				Problem:
				- Navigating forwards AFTER navigating backwards retains the selected answer previously selected
				Solution:
				- When moving forward after going backwards, clear future selections to ensure past choices aren't remembered.
				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
				- Modified handleAnswerSelection to first try to subtract points from the answers that are being changed
				Problem:
				- 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)
				Solution:
				- 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.

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(see)
				!!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	Built Recommended Places screen and styling
				Connecting frontend UI to make API requests to display the recommendations:  - Developed methods to fetch recommendations  - Developed filter options  - Switched back to local to work on the app Problem: app UI was not displaying results  - The frontend was now receiving an empty array upon making requests Solution:  - 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  Next Steps:  - 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	Fixing the photo display on the recommendations screen  - 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:
200		1 2 2 2 2 2 2 2 2	_	- 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
Simone Lue	2/23/25 5:00 PM	Feb 23, 2025	4	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, deiverables), Implemented Feature (IN PROGRESS: Login, Recommendations, Interactive Maps; COMPLETED: Quiz), Work Logs (IN PROGRESS), Closing and References (IN PROGRESS)  Proposal changes:  - Gantt Chart  - Responbilities  - Timelines  - MVPs Priority

Simone Lue	2/26/25 9:30 AM	Feb 26, 2025	2	Fixing filters Problem 1: Clicking a filter does not change the UI - Passing 'places' instead of 'filteredPlaces' in the FlatList filtering logic Solution: Passed the correct name  Problem 2: Clicking a filter does not show anything (blank page) - Added debugging logs to check - Debugging showed that theres a mismatch between frontend filters and backend categories/frontend filtering is based on unmapped categories - Tried remapping google places categories -> didn't work Solution: - Realized the retrieved google places for the current location were not related to any of the filters Changed one of the retrieved places to map from the raw API response category to one of the filter names and confirmed that it works.
Simone Lue	3/3/25 5:00 PM	Mar 03, 2025	1.5	-For now, will have random google places categories map to the current applicable filters due to default location being set for recommendations retrieval and none matching the filters (ex. Mapping "museum" -> "spa")  - This filtering is to be integrated with interactive maps and will be changed.  Combined the Interactive maps screen and the Recommendations screen  - Both components working as intended  - Both filters working separately  Problem: Recommendations don't change with the travel style filter change for the maps  Next Steps:  - Make sure the recommendations pull from the travel style selected  - Have both filters working together

Simone Lue	3/3/25 8:40 PM	Mar 03, 2025	3	Added OpenAl dependencies
				- Added to the backend for security reasons
				- Since calling from the backend, added chatbot_routes, and updated main.py to include the new router
				Problem: openal version and syntax incompatibility
				- New syntax with the latest openai version
				Solution:
				- Fixed the syntax to match the latest version of openai
				- cURL response confirms api is working
				Added Chatbot Screen and simple styling
				- Able to send request to backend and generate AI response
				Next steps:
				- Style the Chatbot
				- Chat messaging needs to be shown in order
				- Loading visual to indicate the answer is being generated
				- Make refinements to provide tailored information

Simone Lue	3/5/25 2:30 PM	Mar 05, 2025	5.5	Focus: UI Components
				Fixing the Bottom Navigation Icons:
				- Using Ion Icons
				- Previously tried to use depreciated version of lonlcons and had trouble displaying the icon properly
				- Installed latest version of react native vector icons and re-installed pods
				Problem 1:
				- Having the same issue displaying icons: square with '?' In the middle
				Alternative Solution:
				- Switching to FontAwesome6 for icons
				- Following readme for fontawesome6 to carefully install packages
				Problem 2: runtime error, vector icons module not found
				- Lots of errors with dependencies
				- Square icon with '?'
				- Tried to try with fontawesome5
				- Nothing would work
				- Broke the node_modules package
				Solution:
				- Had to revert to original code
				Redoing the TabBar
				- Elevated look to the TabBar
				Problem:
				- Icons were getting cut off
				- Icons and label were shifted upwards and not centered
				Solution:
1				out on

Simone Lue	3/5/25 11:30 PM	Mar 05, 2025	4.5	Focus: UI Components
				Adding "More" menu - Small popup animated window when "More" tab is clicked - Used Animation for the window - Unable to navigate yet
				Blurring the background when the "more" menu is toggled on - Using react-native-community/blur Problem: - After careful and correct installation of dependencies and pods, it showed that the component <blurview> was not working Solution: - Manually add blur library to Xcode and rebuilt app</blurview>
				Adjusting the "More" menu  - Able to toggle blur off and close popup when tapping outside the menu popup  - Moved Settings and Profile to the popup navigation  - Added InteractiveRecommendations and Chatbot to Bottom Tab Bar  Problem 1: Tried to make the tab bar collapsable; screen background became empty  Solution:  - Using props to pass the hideTabBar and showTabBar methods to every screen  Problem 2: Not every screen is scrollable  Solution:  - Using timeout option instead  - Bottom tab times out after 5 seconds of inactivity to hide the screen  Problem 3: InteractiveRecommendations flat list does not scroll behind the bottom tab bar
				Problem 4: Project build broke
Simone Lue Simone Lue	3/6/25 4:00 AM 3/7/25 12:00 AM	Mar 06, 2025 Mar 07, 2025	1.5	Retrieved lost progress: Toggling blur, adjusting popup menu, timeout option  Focus: Chatbot
				Making the chatbot and user messages send in a normal texting format  - Most recent messages on the bottom instead of on top of older messages  - Order of the messages are preserved inside setMessages() without overwriting previous updates  - Latest messages always appearing at the bottom by using 'inverted' on flatlist
				Next Steps: - Style the Chatbot - Loading visual to indicate the answer is being generated - Make refinements to provide tailored information

Solution:  - Retrieved user travel style from from async storage and stored in state variable  - Passed state variable to the backend  Next Steps:  - Style the Chatbot  - Loading visual to indicate the answer is being generated	Simone Lue	3/7/25 11:30 PM	Mar 07, 2025	Configuring the AI to provide tailored information  - Added content body to the role of the system (AI)  - Ai is defined as a travel assistant with a default location in Vancouver BC  - Chatbot screen retrieves user's travel style and tailors recommendations to the user's style  Problem: Had trouble sending the travel style to the backend
				- Retrieved user travel style from from async storage and stored in state variable - Passed state variable to the backend  Next Steps: - Style the Chatbot

Simone Lue	3/9/25 12:00 AM	Mar 09, 2025	2.5	Added Chatbot and user avatar
				- Indicate Chatbot/user message
				- Styled and positioned avatars in desired position
				- Adjusted styling for message responses
				Styled the text input box
				- Changed the styling to a more stylish look
				- Send icon instead of text button
				Added a customer Header for the Chatbot
				Added animated "" to indicate to users when chatbot is fetching a response
				- useState isTyping to track when the bot is processing a response
				- Before sending in a request, insert "" as a placeholder message from the bot
				- "Animate" the "…" by cycling through "." "" every 500ms while isTyping is true
				- Remove "" when the response arrives and replaces with the real message
				Tried to retain bottom navigation on profile, settings, and chatbot screens
				Problem:
				- Navigation is separate from Tab Navigator
				- Tried to use separate AppNavigator
				- Tried to use hidden Tab Screens
				- Could not resolve; will revisit
				Next Steps:
				- (If time permits) Tailor responses with weather information

Simone Lue	3/9/25 1:00 PM	Mar 09, 2025	1.5	Problems: - No consistency in navigating between screens (some using Tab Navigation, some using Stack Navigation) - Back swipe is not working on Tab Screens - Bottom Navigation Bar is not showing up on screens in the "More" menu Solution: - Discarded Tab Navigator method - Strictly using Navigation and routes as custom bottom navigation - Changed main stack and app navigator stacks Results: - Consistent navigation - Back swipe working on all screens - Bottom navigation shows up on all screens unless specified
Simone Lue	3/9/25 1:00 PM	Mar 09, 2025	1.5	- Flat list in InteractiveRecommendations is scrolling due to these changes
Simone Lue	37-97-23 1.00 FIN	171al 09, 2025		Focus: Navigation  No active state on the Bottom Navigation - Adding detection for active screen  Problem 1: Incorrect Active Screen Detection - activeRouteName.name === item.name; was incorrect because activeRouteName was already a string, so .name was invalid This caused isActive to always be false, meaning no tab was ever marked as active.  Solution 1: - Changed const isActive = activeRouteName === item.name; to directly compare the string values  Problem 2: Navigation Structure Issue - By using navigation.navigate("Main", { screen: item.name }), the active screen was inside a nested stack route.name only gave the top-level screen, so it wasn't detecting the focused tab correctly. Solution 2: - Used navigation.getState() to extract the focused screen inside the "Main" stack  Results: - Active state added - Activate state shows label and changes background colour

Simone Lue	3/9/25 6:30 PM	Mar 09, 2025	1	
				Focus: Navigation
				Ensure HomeScreen is active on initial load
				- Default activeRouteName to "Home" on first load
				- Ensure "Home" is highlighted on first load before navigation updates.
				- After navigation changes, activeRouteName updates normally.
				Problem 1:
				- The first useEffect runs before navigation state is fully loaded, so "Home" is not recognized as active.
				- Setting active state inside useEffect([navigation, route]) does not immediately reflect the correct screen.
				Solution:
				- Use useFocusEffect to detect the correct active screen on initial load.
				Problem 2:
				- Home is recognized as active on initial load but navigating to other screens do not update the active state
				Solution:
				- use setTimeout() to delay updating active state until navigation completes because navigation and state updates are happening out of
				sync
Simone Lue	3/10/25 12:00 AM	Mar 10, 2025	2	
				The filterScrollContainer disappeared once the bottom nav got added back to the screen
				Problem:
				- Through debugging, found that the Flatlist in InteractiveRecommendations got pushed up and covered the filters
				Solution:
				- Reduced Flatlist sizing
				- reduced minimum height of the scroll container so that it stops scrolling vertically
				Changed the splash screen title to WayPoint
				Tried adding splash image logo
				- Adding and editing in xcode Storyboards
				Problem:
				- Image will not load
				- Image was in the wrong place
				Solution:
				- Moved image to images.xcassets INSIDE xcode.workspace

Simone Lue	3/10/25 7:00 PM	Mar 10, 2025	0.5	
				Limiting Chatbot response
				- OpenAl generates too many recommendations and suggestions: took too much time to process and text is too long
				- Limiting chatbot recommendations to 3 suggestions
				- Added additional prompt to the full system prompt that is sent to openai
				Added an initial load in message from chatbot
				- Use setTimeout() inside useEffect()
				- Introduction message displays after 1 second
Simone Lue	3/10/25 8:30 PM	Mar 10, 2025	3.5	
				Researching
				- OpenWeatherMap API calls: Need geographical coordinates (lat, lon)
				- Direct Geocoding API to get geographical coordinates (lat, lon)- Requires city name, state code, and country code for accurate results
				of coordinates
				- react-native-geolocation-service library
				- Need to request phone's geolocation feature
				Location Permissions
				- Creating a screen to allow user to enable location services
				- Created styling for the LocationPermissions screen
				- Modify Podfile to set up script for permissions
				- Add permissions to Podfile
				Problem:
				- Podfile was not recognizing RNPermissions/LocationWhenInUse
				- Throw an error when trying to access permissions
				Solution:
				- Modified podfiles and removed RNPermissions/LocationWhenInUse and RNPermissions/LocationAlways to only use RNPermissions
				- The core RNPermissions pod dynamically manages location permissions
				Next Steps:
				- Use retrieved latitude and longitude coordinates to call OpenWeatherMap API

Simone Lue	3/12/25 10:30 AM	Mar 12, 2025	1	Using geographical coordinates retrieved to access OpenWeatherMap API - Changed simulator's location to New West Want: - weather.icon - weather.main
				- main.temp : Unit Default: Kelvin, Metric: Celsius, Imperial: Fahrenheit - Verified API call works - Created weather_routes.py and linked to main.py
				Next Steps: - Complete weather router - Fetch coordinates for every session and pass to router - Retrieve openweathermaps api data - Show details on screen to confirm
Simone Lue	3/13/25 12:00 AM	Mar 13, 2025	1	OpenWeatherMap API  - Completed weather_routes to retrieve temperature, icon, and weather condition  - Set up method in the frontend to pass location coordinates to the backend  - Showing the retrieved information on LocationPermissionsScreen (temporarily) to confirm working API call and to confirm the passing for information from frontend to backend  Restructuring LocationPermissions screen  - Passing location permissions to homescreen  - if location permissions are granted, fetch location to pass to homescreen

Simone Lue	3/13/25 1:00 AM	Mar 13, 2025	1.25	Pactruoturing HomeCoroon
Simone Lue	3/13/23 1.00 AM	Mai 13, 2025	1.25	Restructuring HomeScreen
				- Accept getLocation() as a prop to fetch location
				- Displaying weather information on homscreen instead of in LocationPermissions
				Problem 1:
				- Rendering LocationPermissions screen behind the Homescreen
				- Both screens rendering simultaneously
				Solution:
				- Instead of rendering as a child inside HomeScreen's main view, use conditional full-screen rendering
				Problem 2: Weather information not displaying
				- axios and API_BASE_URL imports missing from HomeScreen
				Solution:
				- Added necessary imports
				Problem 3: LocationPermissions screen loads up on subsequent app launches even when permissions have been granted
				- permissions start off as false and only sets to true when user presses "Allow" on the LocationPermissions screen.
				- The component doesn't know permissions were granted in a previous session until button has been pressed
				Solution:
				- Added useEffect to check permission status of the device on component mount
				Next Steps:
				- LocationPermissions screen won't go away if permissions not granted

Simone Lue	3/13/25 7:30 PM	Mar 13, 2025	2.5	
		1, 1, 1	-	Adjusting the weather display in home screen
				- Rounding temperature to display no decimals
				- Adjusted the layout of the weather box
				Adjusting the MoreMenu
				- Converted MoreMenu from a separate screen into a Modal Overlay
				- Modal overlay is toggled when the more button is pressed which displays over the current view
				Styling Modal menu
				- Fixing up the UI
				- Implementing BlurView to blur background when modal is toggled
				Problem:
				- BlurView is pushing my modal menu out of position
				Solution:
				- Tried to put modal menu inside BlurView -> did not work; blurred everything
				- Use absolute positioning to place modal menu on top of blurview
				Next Steps:
				- LocationPermissions screen won't go away if permissions not granted
				- Handle denied permissions
				- Format chatbot responses
				- start Events screen
Simone Lue	3/14/25 11:00 PM	Mar 14, 2025	0.5	
				Research EventBrite API
				Problem: Event search API is no longer available
				- Unable to search general events without specific event ID
				Alternative Solution:
				- Research for different events API
				- Found PredictHQ which allowed searching of local events
				- Set up token and tested api call on PredictHQ's website
				Next Steps:
				- Set up Events component (Screens, styles, routes)

Simone Lue	3/15/25 1:00 PM	Mar 15, 2025	3.5	
				Chatbot Text Input not clearing
				- Added useRef to manually clear text input after sending message
				Set up Events Screen
				- Set up placeholders for how the events screen should look
				- Added temporary styling
				Set up Events router
				- Set events router and connected to main.py
				- Set GET method for the API
				- Set params for the API call
				Set up methods in Events Screen
				- Using Geolocation to retrieve device's coordinates
				- Passing coordinates to the router to use the PredictHQ API
				- Fetching response data
				Problem: API 401 Unauthorized error
				- Token refuses to work
				- Also discovered PredictHQ is a paid subscription after a free trial -> will not be able to use
				Designer to very our Events MVD fellowing feiture to encurs few a Events encurs ADI
				Decision to remove Events MVP following failure to search for a Events search API
Simone Lue	3/17/25 9:15 PM	Mar 17, 2025	0.25	
0	0,1,,200,120,11	1.0.17,2020	0.20	Format chatbot responses:
				- Added Markdown text formatting for chatbot
				- Styled user message text to allow more contrast for visibility
Simone Lue	3/19/25 6:30 PM	Mar 19, 2025	1	
				Planning and identified the structure for badges MVP:
				- Need to set up Firebase
				- Retrieve user id from the session
				- Category of places (Park, bar, museum etc.)
				- Check in completion ID (UUID) - **DONE**
				- Coordinates of the location check in
				- Place_id of the location check in
				- Time the check in was at
				- Firebase Realtime Database set up with intended structure

Simone Lue	3/19/25 11:30 PM	Mar 19, 2025	2.5	Check In Screen
Sillione Lue	3/19/23 11.30 FM	Mai 19, 2025	2.5	- Uses geolocation to get current coordinates
				- Send GET request to google places search API with a small radius for precise verification
				- Return list of the GET request is filtered for categories with "park", "bar" or "museum"
				- Once check in verification is successful, a UUID is generated + time stamp recorded + user UUID is retrieved from AsyncStorage and sent to Firebase
				- (Placeholder) Alert to notify check in successful or error matching location
				- Verified using Stanley park coordinates
				Problem 1: Using Stanley Park coordinates retrieved Shakespeare Garden INSIDE Stanley Park
				Next Steps 1/ Solution 1:
				- Display a list for users to check nearby places and select the correct one
				- Display a list for ascis to encokinearly places and select the confect one
				Problem 2: Multiple check ins at the same location should not be allowed
				Next Steps 2/Solution 2:
				- Same location name/coordinates will not be allowed a second check in
Simone Lue	3/20/25 11:00 PM	Mar 20, 2025	1.5	Displaying a list for users to select a check in location
				- Fetch location using geolocation on mount and queries google search API to fetch nearby places
				- Display retrieved places in flatlist
				- Selecting a place confirms the check in
				Problem 1: Flatlist showing incorrect name
				- Flatlist showing the "name" property to be location name (ex. Central Vancouver) instead of the name of the place (ex. Shakespeare
				Garden)
				Solution 1: The Flatlist's radius retrieval is too small
				- Increase radius to 300
				Problem 2: Flatlist showing repetitive items with different categories
				- Shakespeare Garden appears 4 times with categories: park, beach, botanical_garden, hotel
				Solution 2: Filter data by place_id
				- One location has one place_id
				- Filter duplicates in response data so only one instance of each place_id appears
				Problem 3: Flatlist displaying diverse categories
				Solution 3: Further filtering
				- Defined a list of allowed categories (park, museum, bar- the current categories for achievements)
				- Filter out any places that do not match these categories
				יותבו טער מווץ אומכבי נוומר עט ווטר ווומנכוו נווביב כמנבצטוובים
				<u> </u>

Simone Lue	3/21/25 12:30 AM	Mar 21, 2025	0.75	Prevent multiple check ins at the same location
				- Fetch previously checked-in place_ids for the current user and store in a state variable
				- If the place has been checked in before, touchable is disabled with a "Checked In" label
				Problem: Duplicate check ins were still allowed
				- Realized place_id was not being properly sent to be stored in firebase
				Solution: Added place_id in firebase properly
				- confirmed place_id was being added
				- Previously checked in locations are now disabled
Simone Lue	3/21/25 1:15 AM	Mar 21, 2025	0.25	Separated styling sheet
				Next Steps:
				- Fixing the UI of Check In screen
Simone Lue	3/21/25 7:00 PM	Mar 21, 2025	3	Styling Check In screen
				- Rendered a MapView to show 2 types of markers
				- 1 Marker for the user's current location
				- Another set of markers to show nearby locations that match the allowed place categories
				- Details card on the bottom to show the name of the place and the category (defaulted to nearest fetched place)
				- Tapping on a place marker sets the details card to show that selected place
				Problem 1: Marker not showing for nearby places
				- Asynchronous timing between the user location marker and the fetch locations marker
				- Tried normalizing data -> did not work
				- Tried useRef -> did not work
				- Tried setting initialRegion -> did not work
				Solution 1:
				- Render map only after user location and places markers are available
				- Allows for everything to be loaded in at once

Simone Lue	3/21/25 10:00 PM	Mar 21, 2025	1.25	Default place (closest place) does not have a marker  - Tried to introduce a defaultPlace state to store nearest place and set as initial selectedPlace -> did not work  - Tried using unique marker keys and fallbacks -> did not work  Solution: Removed user location marker and discovered the default place was hiding behind it  - Removed user marker as its not important  - Added Circle from react-native-maps to show circle centered on user's coordinates  Cleanup  - Added refresh button to update current user location and nearby places  - Extracted logic from useEffect into its own function so it can be called on mount and via manual refresh button
Simone Lue	3/21/25 11:30 PM	Mar 21, 2025	2	Starting the Achievements system - Retrieve checkins by the user from Firebase - Count check ins for each category node - Badges set up with milestones (5/10/20 check ins) Troubles encountered: - incorrect queries to Firebase Next steps/problems: - Categories with no previous check ins are not displayed - Adding badges (images/icons) - Styling
Simone Lue	3/21/25 1:30 PM	Mar 21, 2025	1.75	Categories with no previous check ins are not displayed - Instead of iterating over categories that currently exist in the database, iterate over all categories to make it all show - Do data[category]     {}, which means if data[category] is missing in firebase, we use an empty object instead  Separate style sheet - Removed in line styles - Moved all styles into a separate sheet  Generate badges - Generate badges - Generate badges for the achievement system that suit the style of the app - Use gemini Al to generate badges Problem: Difficult to generate image exactly how we want it - Have to generate a lot of times to get it close to desired image

Simone Lue	3/21/25 10:30 PM	Mar 21, 2025	1.5	Adding badges
				- uploaded badge images to the app
				- return correct badge for each category according to the number of check ins
				Problem: no badge displayed when the user has not completed the minimum for achievement
				Solution: need to display something
				- Showing bronze badge with lower opacity
				Add progress bar
				- To show progress to next achievement
				- Using progress bar
				- Used getProgress function to calculate a fraction to the next threshold
				- Displayed under trophy badge
				Problem: There is an empty gap at the start of the progress bar
				- Fixing 0 margin -> did not work
				Solution:
				- added width={null} to inline styles to let it fill the container
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Simone Lue	3/22/25 12:00 AM	Mar 22, 2025	0.75	Generating more trophies
				- More trophies for categories bar and museum
				- Added all generated trophies for each achievement level and category to the project assets
				Displaying new badges
				- Defined a new trophy mapping object based on achievement category and badge level
				- Calls getBadgeImage to display the correct trophy image for that category

Simone Lue	3/22/25 12:45 AM	Mar 22, 2025	2.25	Styling Achievements
				- Styled in grid layout
				- Allow flexibility for future category addons -> any addition will wrap automatically
				- Removed card layout -> replaced with grid cell layout
				- Some badge images have a checkered background -> removed
				Adding a modal
				- Add a modal to display the category, current progress, and description of the selected badge item
				- Also displays available tiers of the badges
				- When user taps a badge, the selectedAchievement state is updated and modalVisible is set to true
				- Clicking "X" closes modal and sets modalVisible to false + clears selectedAchievement state
				Problem 1: Progress bar not showing in modal
				Solution 1: removed null width from the progress bar
				Problem 2: Progress is set centered in the bar, leaving unfilled progress at the start and end of the bar
				- React native expects a numeric value for the width of the bar
				Solution 2:
				- Imported Dimensions from react-native library to get screen width
				- Set progress bar width to a % of the screen instead of having a set width (i.e. 200) to ensure consistency across screen sizes
				Problem 3: Progress bar margin is not setting; touching edges of the modal
				Solution 3:
				- Wrapped progress bar in a View
				- Adjusted width based on screen size
				- aligned it in the center
				Next Steps:
				- Confirm all achievements display correctly for each tier
				- Adjust styling