



School of Computing & Information Sciences

Spring 2024 Capstone II Project

CommuteConnect

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Knight Foundation
School of Computing
and Information Sciences

PROBLEM

CommuteConnect is a community-based carpooling application aimed at reducing carbon emissions, alleviating local traffic congestion, and helping users save on travel expenses.

Looking at the project from a user's perspective, CommuteConnect needed a way in which its users could view their upcoming trips, and their past trips, and a way to cancel their upcoming trips.

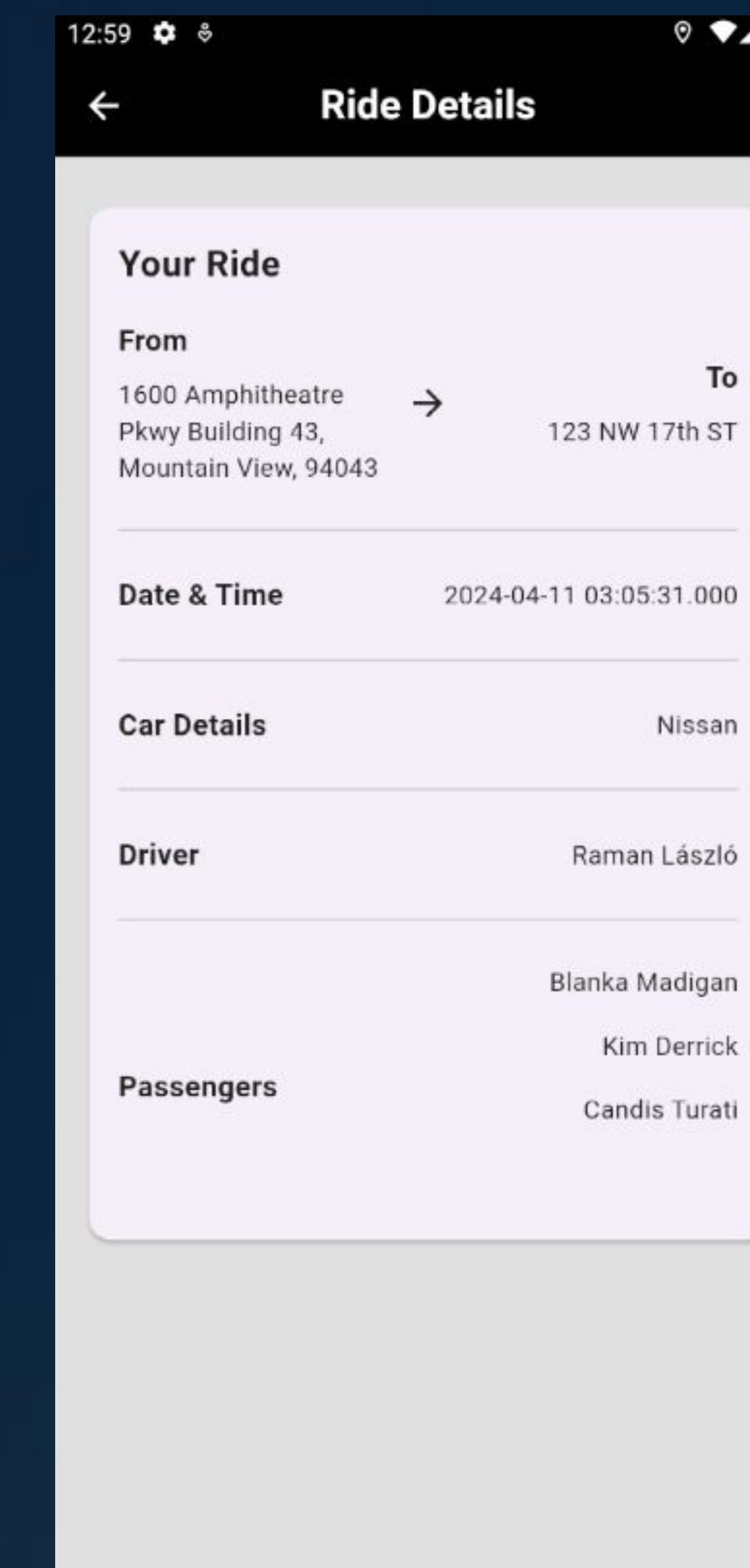
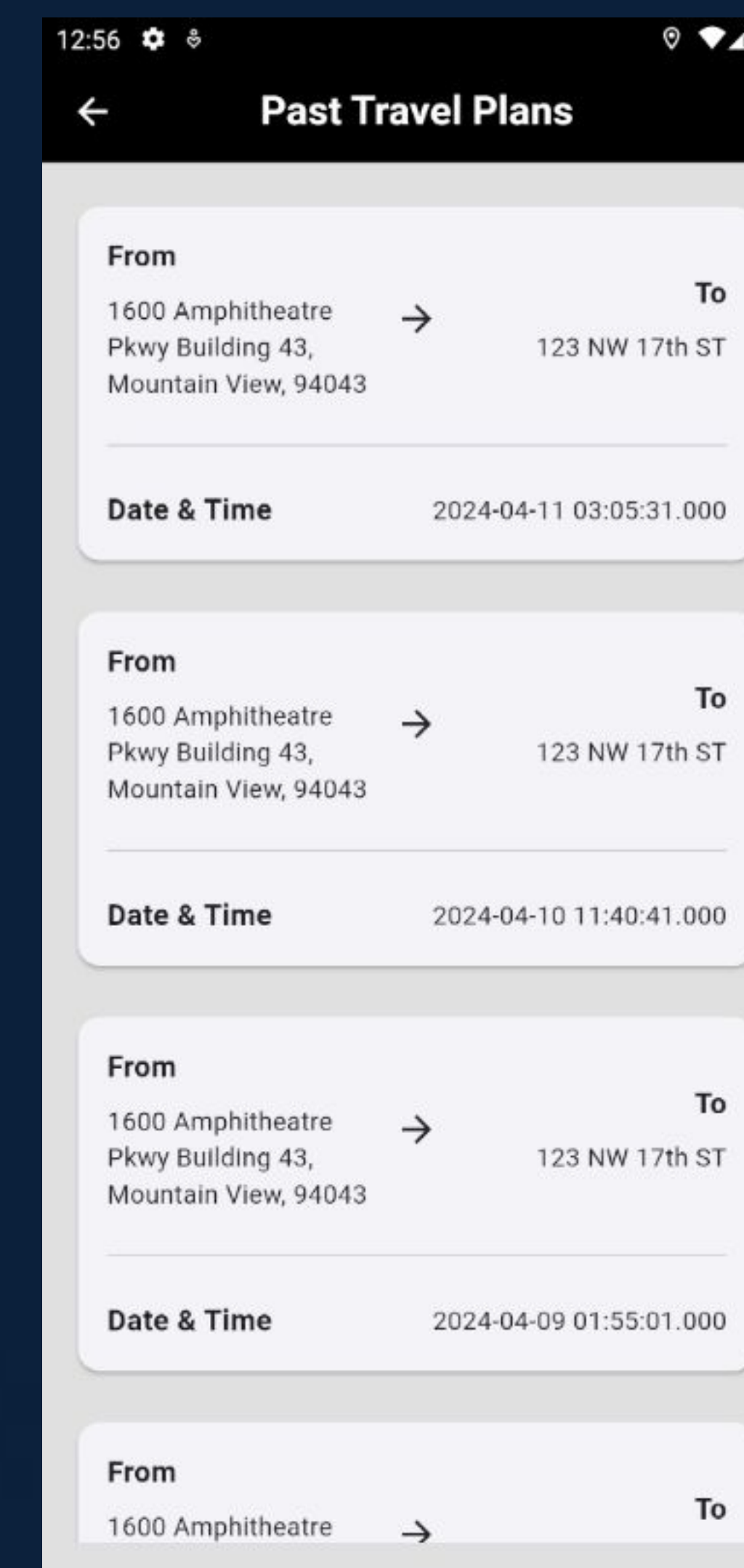
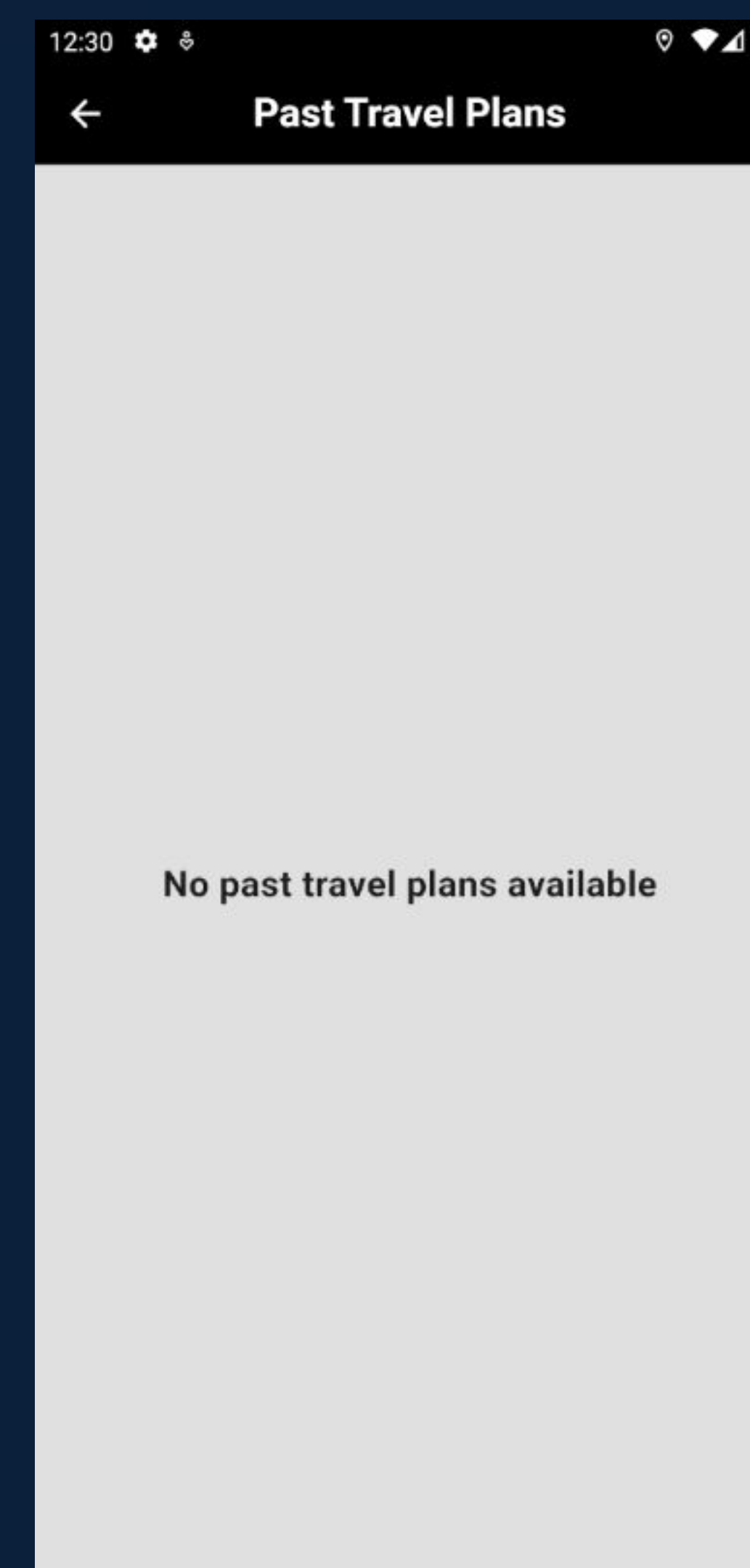
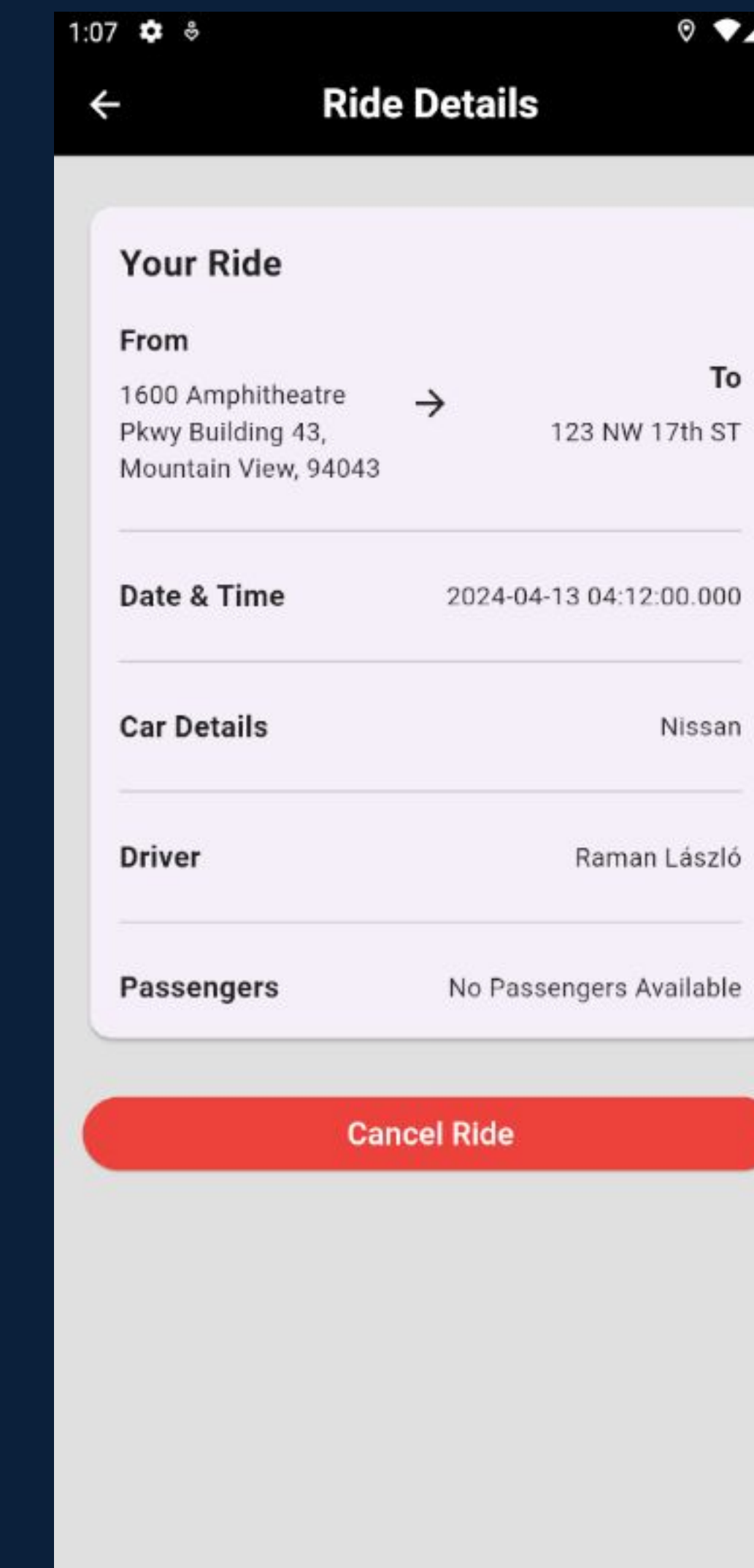
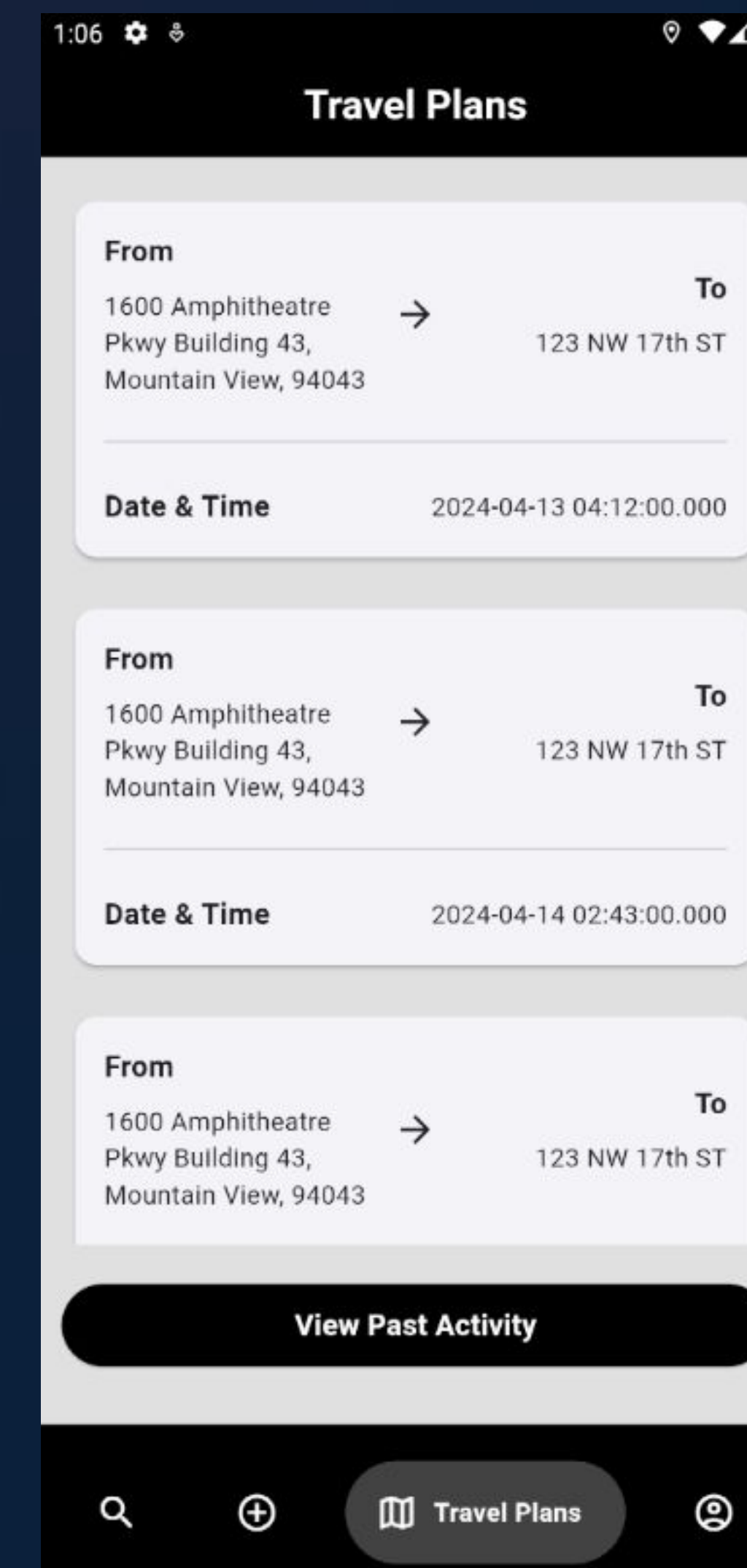
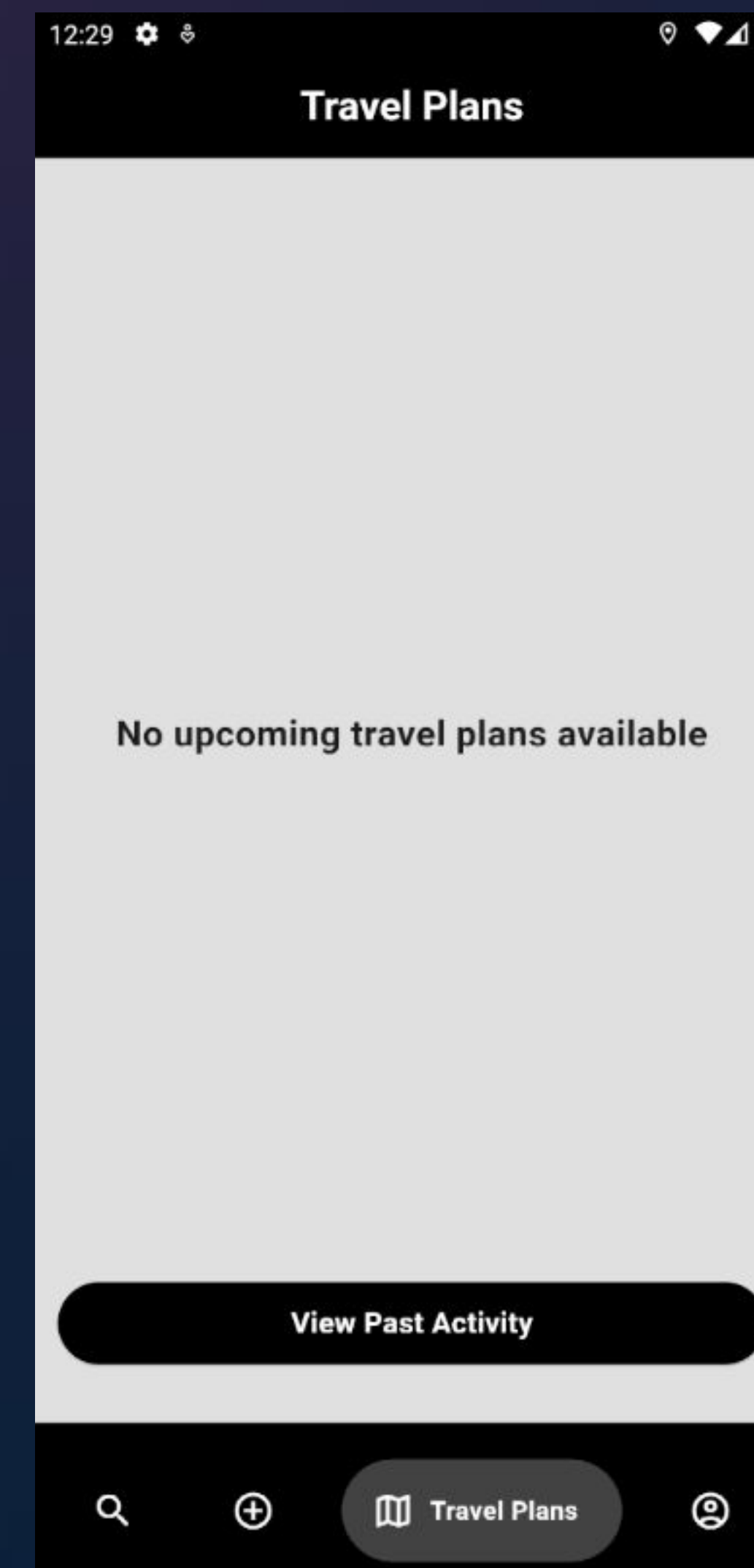
SYSTEM DESIGN

For the front-end, Flutter was used to build the user interface.

For the back-end, our team utilized the Firebase Realtime Database.



APP DESIGN



IMPLEMENTATION

Implemented a 'Travel Plans' page, which shows users their upcoming travel plans in a scrollable list format. Trips are sorted so that trips with earlier dates show at the top. Individual trips are clickable and are indicated when hovering over their box. Features a 'View Past Activity' button, which takes users to the 'Past Travel Plans' page.

Implemented a 'Past Travel Plans' page, which shows users their past travel plans in a scrollable list format. Trips are sorted so that the most recent trips are at the top. Individual trips are clickable and are indicated when hovering over their box.

Implemented a 'Ride Details' page, which shows users more details on a specific trip they clicked on. If the trip is an upcoming trip, the page features a 'Cancel Ride' button. When the button is clicked, it asks the user to confirm whether they want to cancel their ride, and if so, cancels a ride for a user.

SUMMARY

To conclude, by implementing the 'Travel Plans' page, 'Past Travel Plans' page, and 'Ride Details' page, we have allowed for a way in which the user can easily view their upcoming rides, and their past rides, and a way for the user to cancel upcoming rides.

ACKNOWLEDGEMENT

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