Panther Carpooling & Parking

Milestone 1







Team Members

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Faculty Advisor and Client

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Overview of Milestone 1

- Select technical tools for database, front end, and back end
- Select technical tools for code version and control testing
- ☐ Resolve technical challenges
- Create documents
 - ☐ Requirement
 - Design
 - ☐ Test Plan
- Overall Progress of Milestone 1
- Expectation of Milestone 2

Technical Tools

Database, Front End, and Back End

- Database
 - o SQLite
- Front and Back End
 - Blazor Server Application
 - o **C**#

Code Version Control and Testing

- Integration testing
 - Azure and Github Integration
- Unit testing
 - o bUnit
- Performance testing
 - Visual Studio Builds
- Version Control
 - Github

Technical Challenge

Challenge: Accessing Florida Tech tracks

account API

Resolution: Email verification of school

email

Requirements

Functional Requirements

- 1. Expansive User Profile
 - Basic information
 - Location information
 - Carpooling Schedule
 - Vehicle information (Drivers only)
 - Carpooling Preferences
 - Friends List

- 2. Creating Group Recommendations
 - Considers User information
 - Driver automatically suggested
- 3. Group Formation
 - Using system recommendations
 - Manually form group
- 4. Trip Lifecycle
 - Before, during and after trip

Interface Requirements

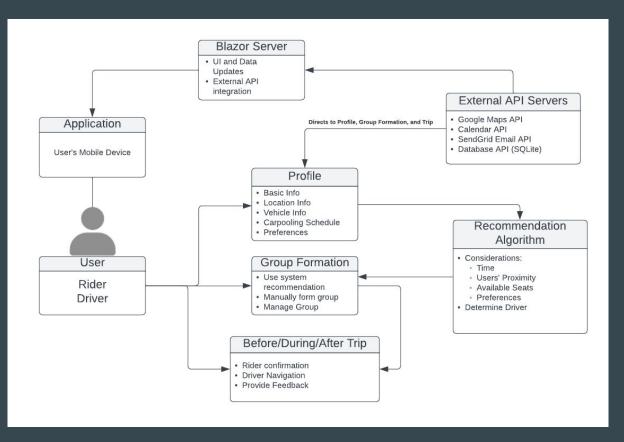
- Functional on web and mobile
- Light and Dark mode
- 2 Interfaces
 - o Rider
 - Driver
- System Administrator View
 - Groups, Users, Available preferences

Security Requirements

- Florida Tech Email Address Required
- System Admin Access
 - Database information
 - Reports
- Block Users
- Rider Pick-Up Confirmation
- Linking to Florida Tech Safe app
 - Contact Local Authorities
 - Share Location with Authorities

Design

System Architecture Diagram

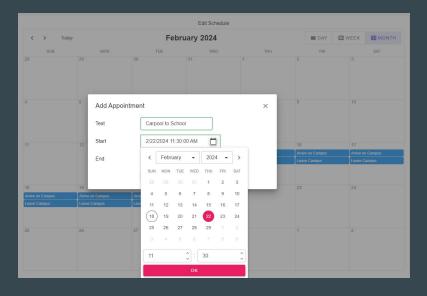


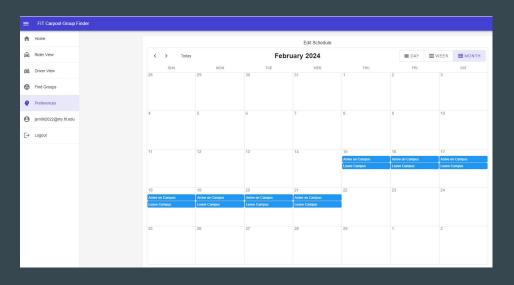
Test Plan



Demos

Calendar API





Google Maps API

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Progress Matrix of Milestone 1

Task	Completion	Austin	Jason	Jacqueline	Hunter	To do:
Technical tools- database, front end, back end	100%	25%	25%	25%	25%	N/A
Technical tools - code version control, testing	100%	25%	25%	25%	25%	N/A
Technical challenges	75%	55%	15%	15%	15%	Implement Florida Tech email account verification
Requirement Document	90%	15%	55%	15%	15%	Implement Advisor Feedback
Design Document	90%	15%	15%	55%	15%	Implement Advisor Feedback
Test Plan Document	95%	15%	15%	15%	55%	Update for new requirements

Milestone 2

- Develop and test user interface for first half of user profile setup (input schedule, location, other preferences)
- Develop and test second half of user profile (friendlist, privacy, user statistics...)
- Develop and test database integration into the web application
- Develop and test routing/map integration using assumed groups

Thoughts, Questions, Suggestions?