SmartRider

RCOS Proposal Spring 2020

https://xd.adobe.com/view/8a421d6f-ad6f-4196-7089-fff92621dc6f-fc73/?fullscreen

Overview:

SmartRider is the all-in-one RPI transportation app for iPhone and Android.

Features will include RPI shuttles schedules, CDTA bus schedules, and the ability to call SafeRide like an uber.

Our goal is to make transportation around RPI safer and easier.

Planned Features:

1. The ability to call SafeRide like an uber
   a. Estimated arrival times, display of current route, and more intuitive UI than transloc rider
2. CDTA bus and RPI shuttle schedules
3. Estimated map with the shuttle and bus routes highlighted
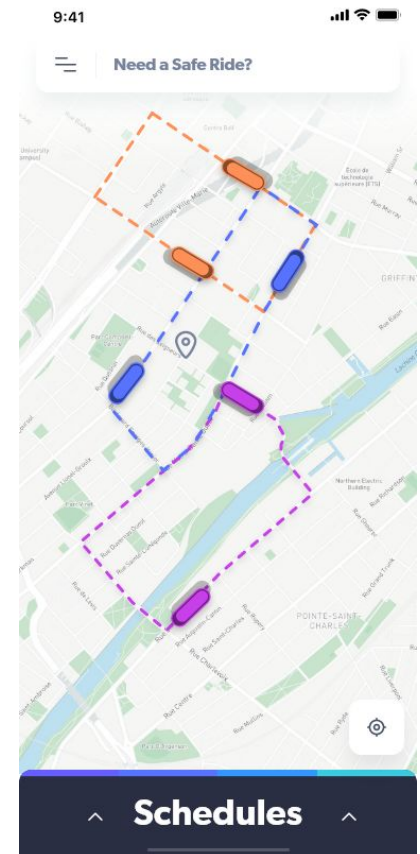4. Sign-in with RPI SIS account

Technologies:

Flutter, MongoDB, Node/Firebase/Django.

Semester Milestones:

Pre-Development Goals:

➔ Finalize frontend/backend dev teams
➔ Finalize backend architecture
➔ Mockup app UI
➔ Meet with safe ride admins

Dev Goals:

- ➔ Design RESTful API
- ➔ Work on SIS sign-in and app authentication system
  - ◆ Have to make sure we don't need to sign-in every time like in the Rensselaer mobile app
- ➔ Implement mapping functionality
  - ◆ Highlighting route lines and current location
- ➔ Implement app page with bus/shuttle schedules that can highlight current day
- ➔ Build flutter routes with the already implemented features
  - ◆ Demo UI flow
- ➔ Port functionality from RPI shuttle tracker
- ➔ Work out navigation and queue system for SafeRide uber

Team:

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