TerpMaps

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The Problem & TerpMaps is the Solution

- Reinvent the way Google or Apple Maps look on college campuses
- UMD students, faculty and guests are unable to navigate within buildings comfortably
- Students struggle to arrive on time to classes as they’re not able to find the most efficient routes, especially due to the construction
- Traffic and heavily populated areas make it harder to go from one class to another
- Certain buildings are hard to navigate due to their size and confusing layout
- On campus events disturb navigation
- TerpMaps application is able to negate these problems

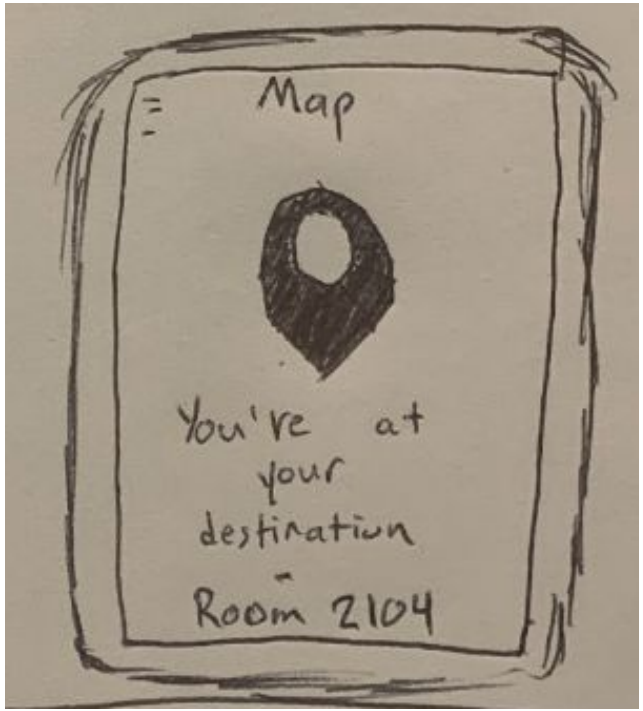
Information Needed for Service to Function

- Acquire buildings names & routes from UMD Campus Map (official UMD map found online)
- Have a partnership with the university to create an ecosystem
- Use official UMD calendar to update app with important events & delays
- Be in contact with University System of Maryland Service Centers to be updated on construction
- Use of Google Maps API
- Will be stored in the cloud, cheapest option and a great starting point (AWS)

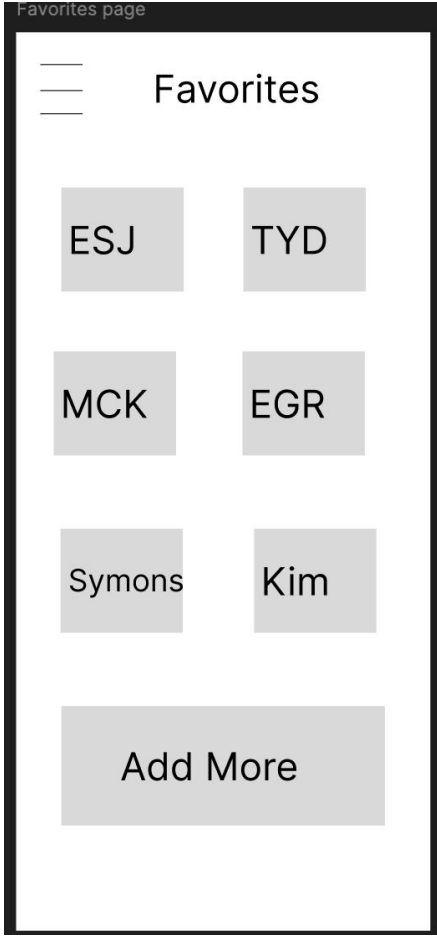
Expected Utilities/Services (TerpMaps)

- Easy real-time navigation that provides the user with the best way to navigate around buildings on campus.
- User-friendly interface like Google Maps or Apple Maps
- Providing accessibility routes for students who need it
- Customizability to change routes, find the easiest route, or fewer congestion routes
- Offline mode for when students don’t have access to data or wifi
- Integration with class schedules to help students plan out what classes they want to take and how long it will take them to get there
- Provide student capacity level or count inside buildings
    - Allows users to see hotspots or where there are crowded places on campus
- Emergency assistant
- Allow UMD login

Initial Application Ideas & Drawings



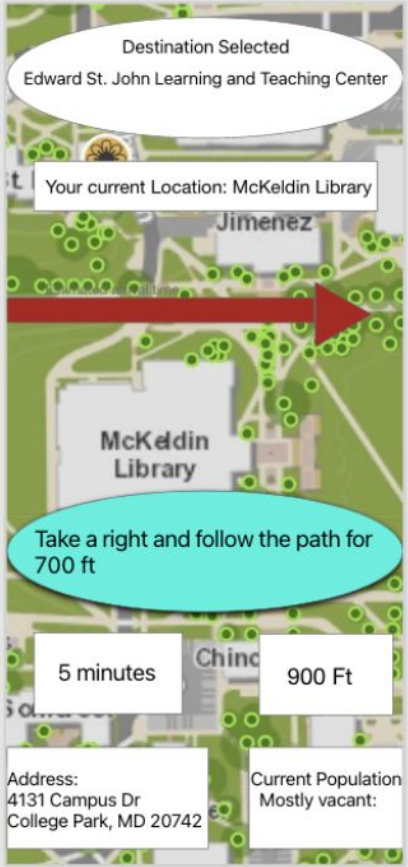
Mockup of TerpMaps



Navigation Within Buildings

Map Screen

Entering address



Outside Navigation

Inside Navigation