

TourPal

An audio walking tour app suite built in React and React Native

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Introduction

- ▶ Web app built in React
- ▶ Mobile App built in React Native
- ▶ Tour Guide creates tours with web app
- ▶ Tourist takes tour with mobile app

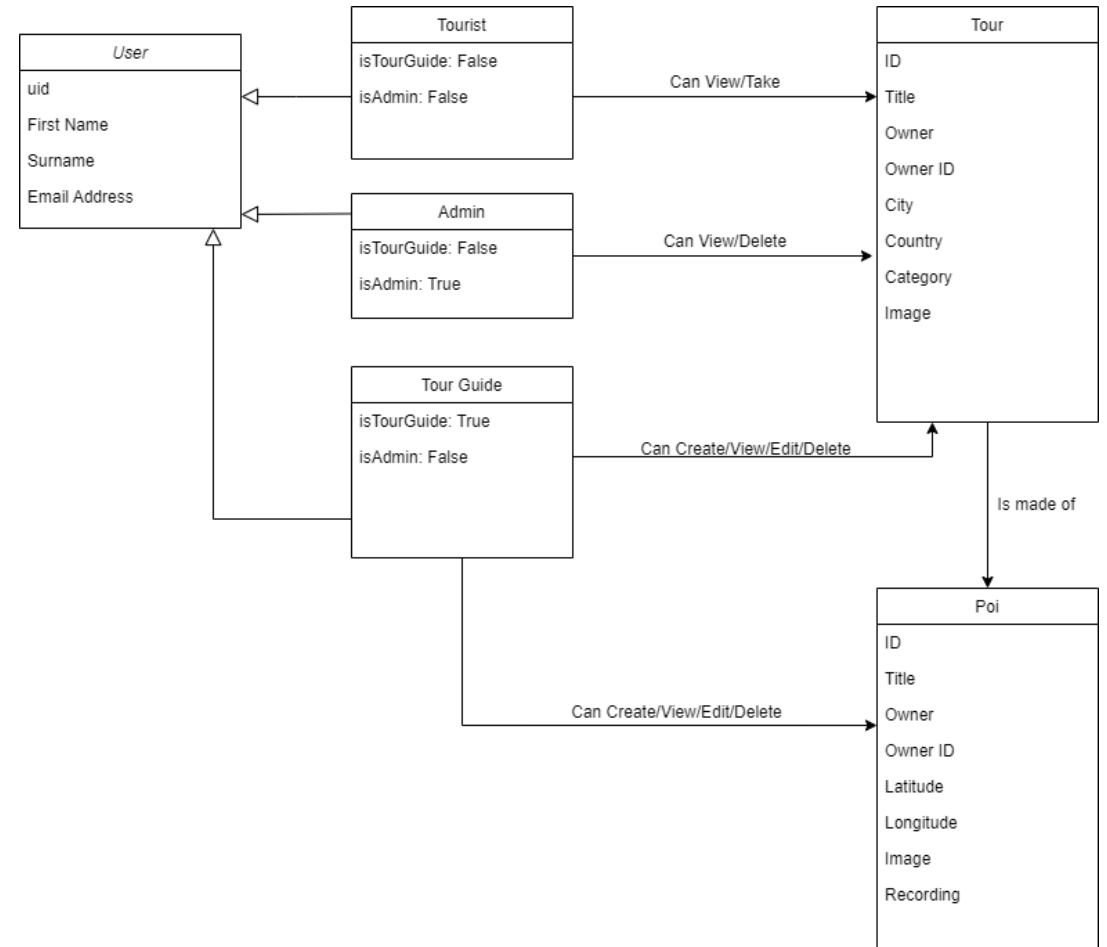
****Demonstration****

Technologies

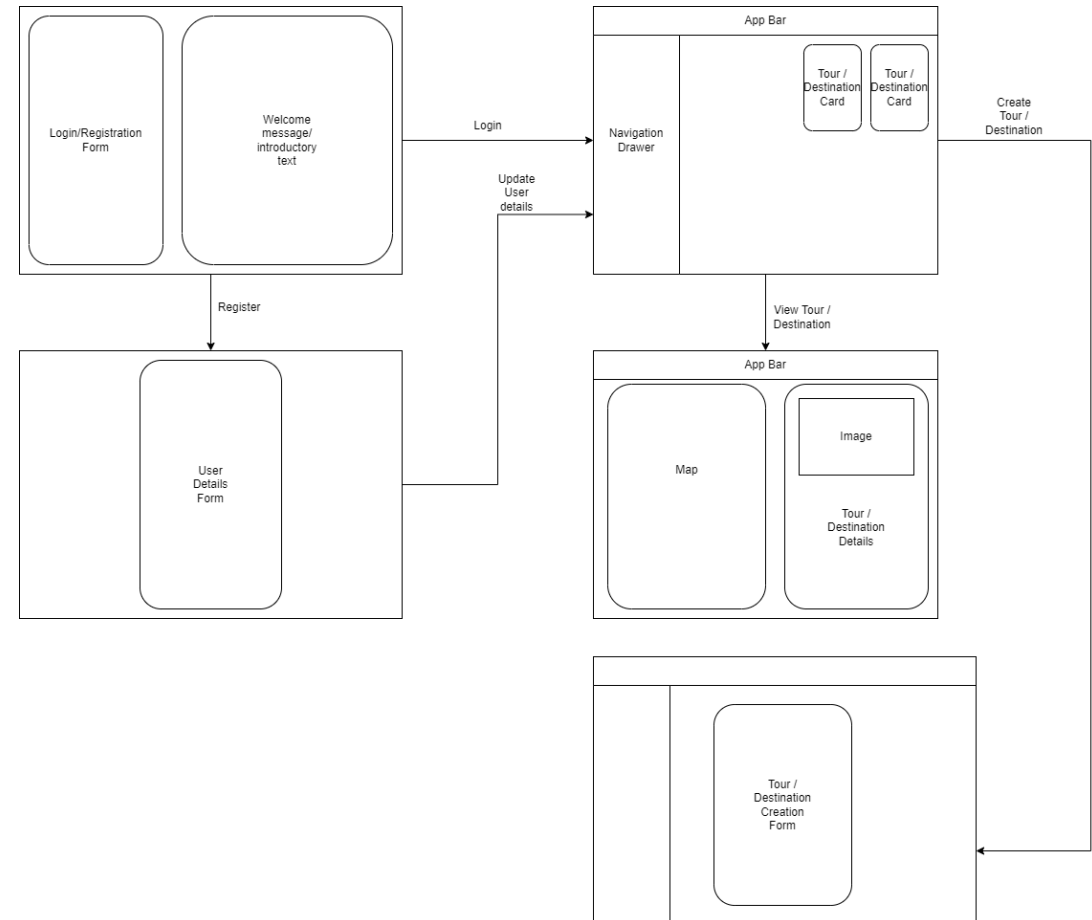
- ▶ Apps built in React and React Native
- ▶ Firebase: Authentication, Realtime Database, Storage
- ▶ Expo and ExpoGo: Mobile app development
- ▶ Map APIs: LeafletJS and React Native Maps

Models

- Users: Administrator, Tour Guide, Tourist
- Destinations
- Tours

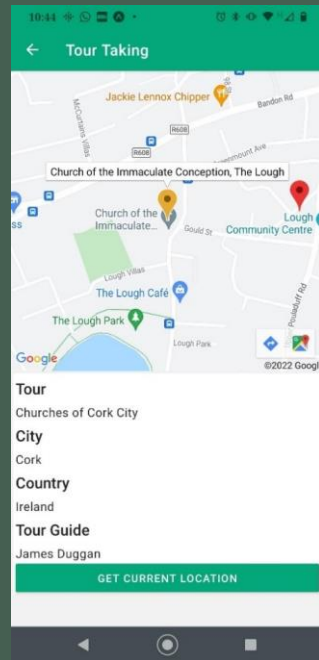
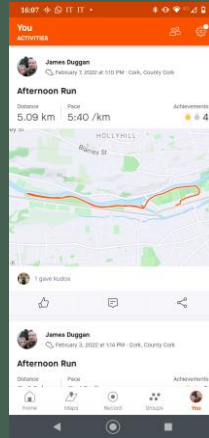
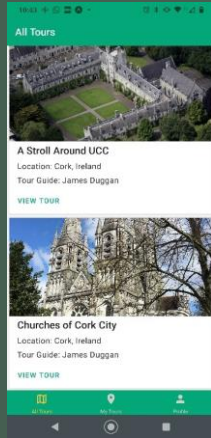


Web App Design



Mobile App Design

- ▶ Based off of *Strava* and similar apps
- ▶ Primary colour and white background
- ▶ Cards used for Tours and Destinations



Methodology: RAD System

- ▶ Rapid Application Development (RAD) system
- ▶ Phase 1: Define and finalise requirements
- ▶ Phase 2: Begin building prototypes
- ▶ Phase 3: Gather user feedback
- ▶ Phase 4: Testing
- ▶ Phase 5: Presenting your system

Issues

- ▶ Finding free map API for mobile app
- ▶ Timing and planning
- ▶ Design

Outcome

- ▶ Happy with overall result
- ▶ Built functional audio tour app service
- ▶ Use of React and React Native in conjunction highly beneficial

Future

- ▶ Stretch Goals
- ▶ Orienteering Function
- ▶ Download audio function

The background features a dark grey-blue rectangular area on the left and a series of overlapping, semi-transparent green triangles and polygons on the right, creating a modern, abstract geometric design.

Thank You!!!