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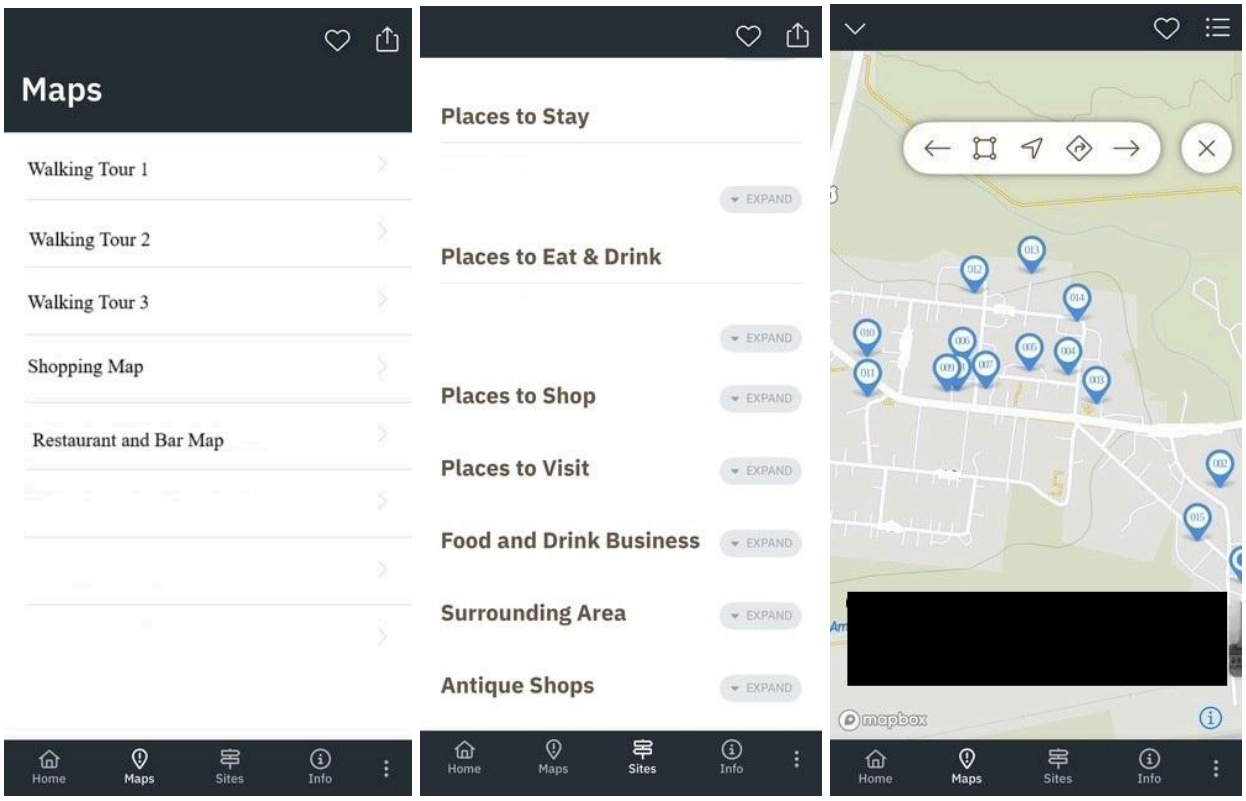
Intro Report- Ambridge Mobile

Ambridge, PA and Old Economy Village have a rich history dating back to the early nineteenth century. The village works to preserve that history with a well-maintained ground and restored buildings. Combined with the variety of unique small businesses throughout the borough, Ambridge has the potential to be a premier tourist destination in Western PA. An app can be one of the solutions to help Ambridge reach this potential. By displaying walking tours in an easy-to-read fashion and recommending local businesses, an App can make the many attractions of Ambridge accessible to outsiders. Using a multi-layered approach using a front and back-end, the App can be future-proof. This report outlines the Ambridge Mobile, creating a plan that can be changed throughout the process.

App/UI Design



Ambridge Mobile will have pages as follows:

- Home Page
    - Text displaying latest news from Ambridge and Old Economy
    - Pictures of the Borough
- Maps/Tours Page
    - Links to each tour/map, as shown in left image
    - Click leads to map as shown in right image
    - Icons mark tour checkpoints, clicking an icon shows description, image, and audio file explaining history or points of interest
    - Separate icon to mark tour start location
    - Map will be implemented using either MapBox or MapLibre if costs are an obstacle

    - Tour info will be taken and updated with Clio for Museums, which will also be updated with tour information throughout
- Sites Page/List
    - Groups all Ambridge businesses by purpose
    - Stored on some type of backend database to ensure it can be easily updated as businesses change
    - Clicking a business links to same description as map
- Info Page
    - Contact information for Old Economy and Ambridge

App Architecture

- Frontend (User Display and App Features)
    - React Native will be the primary software framework allowing both iOS and Android implementation
- Backend (App Content)
    - Node.js used to manage content, locations, and text
    - SQLite used to store businesses, descriptions, and for ease of updates
    - Firebase for hosting
- Version Control/Storage
    - All files, including reports and code, stored on Github as well as Google Drive, access given to any Ambridge/Old Economy members

Timeline

- Weeks 1-3
    - Polish out initial plan and get feedback
    - Physically map out Old Economy Tours
    - Create primitive frontend and backend, confirm that planned softwares are sufficient
- Weeks 4-6
    - Implement Map API and finalize working tour maps
    - Continue to build database of business and tour site descriptions
- Weeks 7-9
    - Fully integrate backend with frontend
    - Create an easy way for Ambridge members to update database and App
    - Acquire any feedback for additional issues or features
- Weeks 9-End
    - Continue to polish and fix any bugs
    - Finalize method of updating database and tours

Feedback

- Meeting with Ambridge and Old Economy members at least twice a week for tour info/feedback
- Meeting with Technical Advisor every other week for questions/feedback
- Mid-Project report given at Week 5-6, Final Report at Conclusion of Project