

Tour Arezzo

History and Art Application: Vision Document

Authors: Hunter Black, Andrew Calder, William Cobb, Conner Flansburg, Charles Ruiter, and Staphanie Whitworth

C S – 3203-001: Software Requirements and Specifications

Dr. Rafal Jabrzemski

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Introduction

Purpose of this vision document:

The purpose of this vision document is to make clear the requirements of the project (in this case the Tour Arezzo mobile application), and to state in clear terms the expectations of the clients. This document will describe in detail how we will go about the construction and distribution of this product, and what type of support will be provided after launch. In short, if there is ever a question about the project and its requirements, this document should be the first place to look for answers.

Product Overview:

The purpose of this application will be to assist with the exploration of Arezzo, Italy for those who wish to view its cultural landmarks. In service of this goal, it will work towards implementing the experiences of tourists (both domestic and abroad) by providing them with a digital companion throughout their travels in the city.

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User Description

User / Market Demographics:

The key market demographic that our product will be marketed to will be tourists of Arezzo, Italy. Because of a difference in needs, we have divided this demographic into two user groups: domestic and non-domestic tourists. By serving these two key users we will help visitors explore Arezzo, and enhance the overall experience of these groups.

User Profiles:

The two user profiles are domestic and non-domestic (foreign) tourists

Domestic tourists:

This user group will include anyone native to Italy but not Arezzo, as well as Arezzo natives. People who are included in this user profile will be assumed to speak at least some of the local language (Italian). This user will be responsible for interacting with the app, and for entering correct information when necessary. Success for this user shall be defined as the app successfully being executed and completing without errors (misunderstandings due to the lack of accessibility options are considered errors for the purpose of this definition). In addition, their experience is to be considered as pertaining to the furthering of our project goals and purpose.

Non-domestic (foreign) tourists:

This user group will include anyone who is not native to Italy. People included in this user group will not be assumed to speak any of the local language (Italian). This user will be responsible for interacting with the app, and for entering correct information when necessary. Success for this user shall be defined as the app successfully being executed and completing without any errors (misunderstandings due to the language barrier, or lack of accessibility options are considered errors for the purpose of this definition). In addition, their experience is to be considered as pertaining to the furthering of our project goals and purpose.

User Environments:

In order to use the app, the user's environment must meet several conditions, shown as follows:

- The user must have a phone that supports the app (Android or iPhone)
- The user's phone must have a camera
- The user must be connected to the internet in order to access reviews and location tracking information
- The user must be in Arezzo
- The user must be familiar with one of the supported languages
- The user must not require any accessibility option that is not supported by the app

Key User Needs:

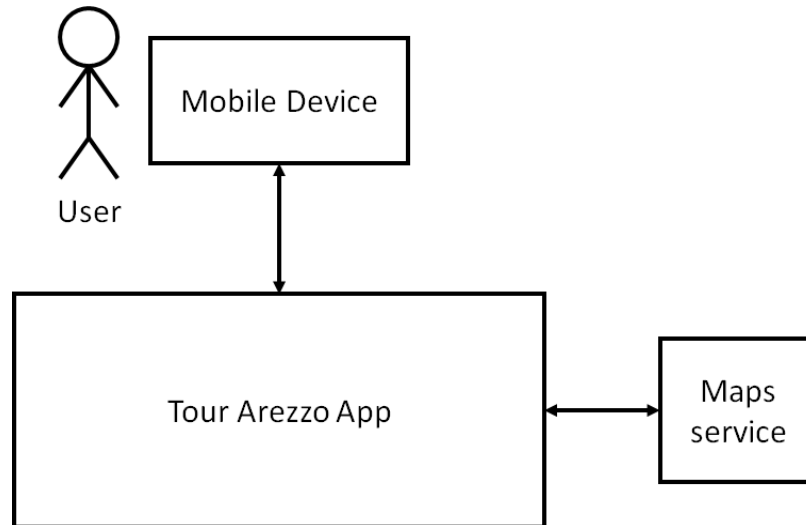
Currently, there is not a sufficiently functional app for touring Arezzo. They are not sufficiently navigable, and do not provide an easy way to explore Arezzo as a tourist. Our app will address the needs of our user groups by providing a product that will solve these problems. We will do so by better integration of services like mapping services, and multi-language support. Additionally, by providing continued support after release we will change and update the app so that such information remains relevant.

Alternatives and Competition:

There are several apps available for both Android and IOS. These may be preferable since they require no development cycle as they are complete. However, a majority of these lack multi-language support which is a major issue for tourism apps.

Product Overview

Product Perspective:



Product Position Statement:

For tourists and residents of Arezzo, Italy, who need information about the city and Italian culture, the Tour Arezzo application is a handheld guide that provides useful information about interesting locations in Arezzo, important cultural aspects of everyday life, and shopping, food, and entertainment reviews and locations, accessible at the user's own pace. The presence of this app saves Arezzo tourists from having to resort to local tours, which may not cover everything the user desires, or from online map services like Google Maps, which provide the user with useful information but are lacking in more general information such as cultural advice.

Summary of Capabilities:

The app is easy to use

- The app has a simple touchscreen interface
- The app has simple, intuitively navigable menus

The app is accessible to everyone

- The app has a text-to-speech function
- The app has a handicap-accessible mode for navigating the city
- The app supports multiple languages

The app stands out from other Arezzo touring apps

- The app makes use of augmented reality through its scavenger hunt feature
- The app does not host advertisements

Assumptions and Dependencies:

- It is assumed that the user is accessing the app on a mobile device
- It is assumed that the user can interface with the mobile device via touchscreen

- It is assumed that the user has access to the internet while they use the app
- It is assumed that the user understands at least one language that the app supports

Cost and Pricing:

The app will be available for purchase at a one-time cost of between \$0.99 and \$4.99, which will place it in the pricing range for similar apps.

Feature Attributes

Art and History:

Map View

Status: Approved

Priority / Benefit: Critical

Effort: High

Risk: Medium

Stability: Medium

Target Release: v1.0

Assigned to: Map Team

Reason: Navigation of a foreign city can be harrowing. Thus, an application that provides multiple different routes from various locations based on user's selected accessibility options would relieve the stress of transit for the user.

Explore

Status: Approved

Priority / Benefit: Useful

Effort: Low

Risk: Low

Stability: High

Target Release: v1.0

Assigned to: Culture Team

Reason: Providing various historical landmark and location information will allow the user to experience the culture of Arezzo even more through learning about its history.

Scavenger Hunts / Scan Codes / A.R. Tours

Status: Proposed

Priority / Benefit: Useful

Effort: High

Risk: High

Stability: Medium

Target Release: v2.0

Assigned to: A.R. Team

Reason: Implementing A.R. into this application will greatly improve the learning experience of the user while navigating between historical landmarks, and will set this application apart from competing tour applications already on the market.

Food and Wine:

Status: Approved

Priority / Benefit: Important

Effort: Medium

Risk: Medium

Stability: Medium

Target Release: v1.0

Assigned to: Attractions Team

Reason: Giving the option to view restaurants and wineries nearby will allow the user to grab a meal wherever they are, without having to leave the application. Providing reviews and possible wine pairings will improve the user's overall eating experience.

Outdoor Activities:

Status: Approved

Priority / Benefit: Useful

Effort: Medium

Risk: Low

Stability: Medium

Target Release: v1.0

Assigned to: Attractions Team

Reason: Showing nearby outdoor activities such as parades, festivals, seasonal markets, etc. will give the user the option to immerse themselves further into the culture of Arezzo.

Shopping:

Status: Approved

Priority / Benefit: Useful

Effort: Medium

Risk: Low

Stability: High

Target Release: v1.0

Assigned to: Attractions Team

Reason: Showing shops close to the user's location will allow them to quickly choose where to shop for specified things, without having to leave the application.

Entertainment:

Status: Approved

Priority / Benefit: Useful

Effort: Medium

Risk: Low

Stability: Medium

Target Release: v1.0

Assigned to: Attractions Team

Reason: Allowing the user to view local entertainment options such as theaters, museums, nightlife, etc. will allow the user to plan their days to include said options so as to further immerse themselves in Arezzo's culture.

Cultural Tips:

Status: Approved

Priority / Benefit: Critical

Effort: Medium

Risk: Low

Stability: Medium

Target Release: v1.0

Assigned to: Culture Team

Reason: Important to avoid uncomfortable and/or unlawful behavior due to lack of or misunderstanding of cultural knowledge. Having this feature will also, in theory, make the non-native user's experience more enjoyable.

Settings:

Status: Approved

Priority / Benefit: Critical

Effort: Medium

Risk: Medium

Stability: High

Target Release: v1.0

Assigned to: Culture Team

Reason: Critical for users that have a disability or require an accessibility feature, or are non-English speakers. This feature will also help the development team by allowing users to provide feedback to report bugs, missing functionality, or desired features.

Product Features

List of Product Features:

- Provides the ability to see various points of interest (POIs) in Arezzo, Italy
 - Can do this through a map, showing where these POIs are in relation to the user
 - Selecting one of these POIs pulls up:
 - Various routes available from user's position to the POI
 - Shows fastest route for handicap accessible and fastest route that doesn't require handicap accessibility
 - Bring up the option to view an extended description of the POI which would include operating hours, qualitative price, and reviews
 - Can also do this using a list (explore) view, showing a picture of the POI, its name, how much the POI costs (qualitative scale), and POIs operating hours
 - Selecting one of these POIs from the list pulls up:
 - Extended description of the POI including ratings, and any pertinent reviews
 - The option to show the POI in the map view
- Scavenger Hunt
 - Some of the POIs will have scavenger hunts for smaller points of interest inside of the larger area
 - These smaller POIs will have clues that lead the user to their location
 - After the smaller POI is found, the user takes a picture of a unique QR scan code somewhere on or near the smaller POI
 - After the QR code is scanned, a page comes up with extended information about the smaller POI
- Augmented Reality Tour
 - The user will be able to select from one of the available Augmented Reality (A.R.) tours
 - As the user walks along the path of the tour, the app points out the POIs the user passes through an indicator on the screen where the POI is located, and displays a small amount of information pertaining to the POI, which can be expanded to read more
 - Directions are also provided on where to go next after closing out of the current POI's information page
- Attraction Information
 - The option to display local attractions including:
 - Food and wine (restaurants and wineries) with information on:
 - Ratings

- Pricing
 - Possible food / wine pairings
 - Outdoor activities, including but not limited to:
 - Parades
 - Festivals
 - Seasonal markets
 - Shopping, with information on:
 - Ratings
 - Pricings
 - Genre
 - Entertainment, including but not limited to:
 - Theaters
 - Museums
 - Night life attractions
- Cultural Information
 - The option to display cultural information relevant to Italy and Arezzo that a foreign user may or may not already be knowledgeable about
 - This will include, but is not limited to:
 - Shopping etiquette
 - Eating etiquette
 - Dressing tips
 - Italian timing
 - Pedestrian etiquette
 - Helpful phrases
- Settings
 - The app will have a settings page with the following options lists:
 - Change the displayed language
 - Turn off and on accessibility options, including:
 - Handicap routes
 - Color deficiency
 - Audio help
 - The ability to report an issue or bug
 - The ability to contact us (the development team)

Exemplary Use Case(s)

Settings Use Cases:

Change Language

Brief Description: Allows users to change the app language.

Actors: International Tourists, Domestic Tourists, Handicapped

Flow of Events: User goes to settings. User can either return to the home screen or select the language at the top of the settings screen visually represented by the country flag.

Pre-conditions: None

Post-conditions: None

Exceptions: On startup, language change options should prompt first to avoid language issues.

Special Requirements: Text-to-speech for the blind might be difficult to find.

Contact the Developers

Brief Description: Allows application users to contact the app developers for feedback about app usage.

Actors: International tourists, domestic tourists, handicapped, developers

Flow of Events: User opens the settings menu. User clicks on “Contact Us.” User emails the developer. Developer will receive the email and respond to the user through a chosen contact method.

Pre-conditions: Developer must have a way of being contacted.

Exceptions: None

Special Requirements: Developer may not speak the same language as the user.

Report an Issue

Brief Description: Allows users to submit bug reports

Actors: Domestic tourists, International tourists

Flow of Events: User opens the settings menu. User clicks on “Report an issue” link.

Link prompts them with a set of fields. User enters the problem into the fields. User clicks submit and the report is sent to the server for the developers to look at.

Pre-conditions: An issue has arisen that needs reporting

Post-conditions: The issue has been successfully reported to development team

Exceptions: None

Special Requirements:

Switch to Wheelchair Accessible Mode

Brief Description: Allows handicapped users to switch to wheelchair accessible mode.

Actors: International Tourists, Domestic Tourists, Handicapped

Flow of Events: User goes to settings. User selects to turn on wheelchair accessibility options. All options in the app will now consider wheelchair accessible routes and sites.

Pre-conditions: None

Post-conditions: None

Exceptions: None

Special Requirements: Must have different handicap modes for blind and deaf as well as wheelchair accessibility routes.

Change Color Deficiency Settings

Brief Description: Allows application users to change the color settings for the app

Actors: International tourists, domestic tourists, handicapped

Flow of Events: User opens the settings menu. User clicks on “Colorblind settings” under “Accessibility” option. User can then use RGB values to fine-tune the color settings for the app.

Pre-conditions: None

Exceptions: None

Special Requirements: There must be an easy way to slide color values for those who do not know how to use RGB values.

Change Text-Size Settings

Brief Description: Allows application users to change the font size settings for the app

Actors: International tourists, domestic tourists, handicapped

Flow of Events: User opens the settings menu. User clicks on “Font Size” under “Accessibility” option. User can then enter desired font-size into the app.

Pre-conditions: None

Exceptions: None

Special Requirements: A text-to-speech option is desirable for those who need extra-large font. Also, the screen must accurately resize in accordance with the letters. Words that run off a screen should use a scrolling method.

Turn on Text-to-Speech

Brief Description: Allows application users to with vision impairments to enable to to speech options.

Actors: International tourists, domestic tourists, handicapped

Flow of Events: User opens the settings menu. Under “Accessibility Settings,” the user will tap on the screen to enable “Text-to-speech” options.

Pre-conditions: None

Exceptions: None

Special Requirements: It must be easy to find and allow for both reading and writing from speech.

Cultural Tips:

Brief Description: Allows application users to get various cultural tips for the area.

Actors: International tourists, domestic tourists, handicapped

Flow of Events: User selects “Cultural Tips” from the home screen. Cultural tips will open and display various subcategories for tips. User selects a subcategory. The user can then click on any one of the displayed tips. The selected tip will expand for easy reading.

Pre-conditions: None

Exceptions: None

Special Requirements: None

Map View:

Open the Map View

Brief Description: User opens the Arezzo map

Actors: International Tourists, Domestic Tourists, Handicapped

Flow of Events: Under each subcategory navigated to from the home screen, the app will display the option “Map View.” User selects map view and opens the map of Arezzo.

Pre-conditions: A subcategory must be chosen.

Post-conditions: None

Exceptions: None

Special Requirements: It must be efficient enough that users will not see a need to change to Google Maps.

Filtering Map View

Brief Description: Users filter for a location in Arezzo

Actors: International Tourists, Domestic Tourists, Handicapped

Flow of Events: The map opens. The user sets a preliminary filter from a pre-existing selection of filtering methods to search the map. Once a search has been conducted, the user will receive filtered search results.

Pre-conditions: Default filter is all.

Post-conditions: If the default is all, the user may change what is displayed at any time by selecting a filter from the top of the screen.

Exceptions: None

Special Requirements:

Searching for a Location

Brief Description: Users search for a location in Arezzo

Actors: International Tourists, Domestic Tourists, Handicapped

Flow of Events: The map opens. The user can then search for a location using the search bar or drag around the map to find points of interest.

Pre-conditions: None

Post-conditions: None

Exceptions: None

Special Requirements: None

Selecting a Location on the Map

Brief Description: Users selecting a location on the map.

Actors: International Tourists, Domestic Tourists, Handicapped

Flow of Events: User finds a point of interest by scrolling around the map or using the search function. User then taps on the point of interest which brings up location information including ratings, reviews, prices, and the site description.

Pre-conditions: None

Post-conditions: None

Exceptions: None

Special Requirements: None

Explore View:

Explore Feature Selected

Brief Description: Users can explore the Arezzo map with discoverable locations.

Actors: International Tourists, Domestic Tourists, Handicapped

Flow of Events: The user picks a subcategory. The option "Explore" is presented in the submenu. User selects "Explore." A list of available locations to discover are presented to the user along with a search and filter option. If a user selects a location, it will bring up the map.

Pre-conditions: None

Post-conditions: None

Exceptions: None

Special Requirements: None

Finding Site Ratings and Reviews

Brief Description: User checks the reviews of local businesses.

Actors: International Tourists, Domestic Tourists, Handicapped

Flow of Events: User finds a point of interest. Upon tapping, the map will bring up a list of reviews from fellow app users with the total rating listed above the site description in the site description subsection.

Pre-conditions: A location must be selected.

Post-conditions: None

Exceptions: A site may not have ratings or a review to display.

Special Requirements: None

Finding Site Hours

Brief Description: App will display the hours of a site that the user can use.

Actors: International Tourists, Domestic Tourists, Handicapped

Flow of Events: User finds a point of interest. Upon tapping, the map will bring up a site description along with the hours and the rating.

Pre-conditions: None

Post-conditions: None

Exceptions: A site may not have its working hours listed.

Special Requirements: None

Finding Ticket Prices

Brief Description: User checks the ticket prices of the location

Actors: International Tourists, Domestic Tourists, Handicapped

Flow of Events: User finds a point of interest. Upon tapping, the map will bring up the site description section and the prices section at the beneath it.

Pre-conditions: User must select a location.

Post-conditions: None

Exceptions: A location may be free or have no listed prices.

Special Requirements: None

Checking the Site Description

Brief Description: user checks the site description for a local point of interest.

Actors: International Tourists, Domestic Tourists, Handicapped

Flow of Events: User finds a point of interest. Upon tapping, the map will bring up a site description along with the hours and the rating.

Pre-conditions: Must have map, scavenger hunt, QR code, or AR tours open.

Post-conditions: None

Exceptions: Site may or may not have a description.

Special Requirements: Handicapped users may require text-to-speech

Routing to a Location

Brief Description: user can request a route to a selected location.

Actors: International Tourists, Domestic Tourists, Handicapped

Flow of Events: The user selects a location on the map. Once a location is selected, the app prompts the user to begin. The app will navigate the user around obstacles and potential hazards in the most time efficient manner possible.

Pre-conditions: Location must be specified and started by the user.

Post-conditions: Location must be reached or canceled.

Exceptions: A route must use handicap routes if the wheelchair accessibility option is on.

Special Requirements: User may be handicapped and require handicap accessible routes; using GPS might use a lot of data.

Scavenger Hunt:

Using the Scavenger Hunt

Brief Description: user takes a digital scavenger hunt through the city.

Actors: International Tourists, Domestic Tourists, Handicapped

Flow of Events: From the homepage, the user will select a subcategory. In the submenu, they will select “Scavenger Hunt.” The app will display a list of available scavenger hunts to the user. The user selects a scavenger hunt. The scavenger hunt will activate and give the user a list of clues.

Pre-conditions: Display all scavenger hunts available by default.

Post-conditions: None

Exceptions: None

Special Requirements: Scavenger hunt must consider the user’s safety and accessibility needs. It must also not require any illegal actions on the part of the user.

Filtering for Scavenger Hunts

Brief Description: User filters available scavenger hunts

Actors: International Tourists, Domestic Tourists, Handicapped

Flow of Events: From the homepage, the user will select a subcategory. In the submenu, they will select the “Scavenger Hunt.” User will click on filter and select a preexisting filter option. The user searches and it will only display results that match the filter.

Pre-conditions: The default setting is “All” results displayed.

Post-conditions: None

Exceptions: User can change filter at any time without having to start a new search.

Special Requirements:

Searching for Scavenger Hunts

Brief Description: User searches for a specific scavenger hunt from a list.

Actors: International Tourists, Domestic Tourists, Handicapped

Flow of Events: From the homepage, the user will select a subcategory. In the submenu, they will select the “Scavenger Hunt.” User will then type the desired search into the search bar above the filter option.

Pre-conditions: None

Post-conditions: All results must be displayed unless specified otherwise.

Exceptions: None

Special Requirements: None

Scavenger Hunt Clues

Brief Description: App displays scavenger hunt clues for the current scavenger hunt.

Actors: International Tourists, Domestic Tourists, Handicapped

Flow of Events: Once a scavenger hunt is active, if the user clicks on it, the scavenger hunt will display a clue about the location of the next scavenger hunt objective, the option to skip, or the option to receive a hint.

Pre-conditions: Must have an active scavenger hunt.

Post-conditions: User needs to be able to get help if they cannot figure out a clue.

Exceptions: None

Special Requirements: None

Scanning a Scavenger Hunt Code

Brief Description: User uses phone’s camera to scan scavenger hunt scan code.

Actors: International Tourists, Domestic Tourists, Handicapped

Flow of Events: The user opens the QR scanner and points the phone at the scanner code. User presses the camera button and takes a picture. Phone reads the picture and finds the code.

Pre-conditions: None

Post-conditions: None

Exceptions: None

Special Requirements: None

Displaying Scavenger Hunt Information

Brief Description: Application will display interesting facts about a scavenger hunt objective that has been found.

Actors: International Tourists, Domestic Tourists, Handicapped

Flow of Events: From the homepage, the user will select a subcategory. In the submenu, they will select "Scavenger Hunt." The app will display a list of available scavenger hunts to the user. The user selects a scavenger hunt. The scavenger hunt will activate and give the user a list of clues. User scans a code. If the code is a match for the scavenger hunt, the app will bring up interesting facts about the scanned objective.

Pre-conditions: Must have an active scavenger hunt.

Post-conditions: None

Exceptions: None

Special Requirements: None

Augmented Reality:

Augmented Reality Walking Tour

Brief Description: User opens the walking tour feature.

Actors: International Tourists, Domestic Tourists, Handicapped

Flow of Events: User opens the walking tour link in the app. The walking tour link will launch and provide a list of tours.

Pre-conditions: None

Post-conditions: None

Exceptions: Wheelchair accessibility should use wheelchair accessible routes.

Special Requirements: None

Searching for Tours

Brief Description: The user can search for an augmented reality tour.

Actors: International Tourists, Domestic Tourists, Handicapped

Flow of Events: User opens the walking tour link in the app in one of the submenus. The walking tour link will launch and provide a list of tours. User can then search for tours around the city using the search bar.

Pre-conditions: Default setting is to display "All tours."

Post-conditions: None

Exceptions: Wheelchair accessibility should use wheelchair accessible routes.

Special Requirements: None

Filtering Tours

Brief Description: The user can filter augmented reality tour search results.

Actors: International Tourists, Domestic Tourists, Handicapped

Flow of Events: User opens the walking tour link in the app. The walking tour link will launch and provide a list of tours. User will click on filter and select a pre-existing filter option. The user searches and it will only display results that match the filter.

Pre-conditions: The default selection is "All"

Post-conditions: None

Exceptions: Wheelchair accessibility should use wheelchair accessible routes.
Special Requirements: None

Display Tour Route

Brief Description: The app will display the full route on a map for a selected tour.
Actors: International Tourists, Domestic Tourists, Handicapped
Flow of Events: User opens the walking tour link in the app. The walking tour link will launch and provide a list of tours. User selects a tour and the app brings up the tour route.
Pre-conditions: None
Post-conditions: None
Exceptions: Wheelchair accessibility should use wheelchair accessible routes.
Special Requirements: None

Display Tour Information

Brief Description: Site information will be displayed by the building when using augmented reality tours.
Actors: International Tourists, Domestic Tourists, Handicapped
Flow of Events: User opens the walking tour link in the app. The walking tour link will launch and provide a list of tours. User selects a tour and the app brings up the tour description.
Pre-conditions: Augmented reality tour feature must be open.
Post-conditions: None
Exceptions: Wheelchair accessibility should use wheelchair accessible routes.
Special Requirements: None

Scan Code Activation

Brief Description: When a code is scanned, an ad will activate.
Actors: International Tourists, Domestic Tourists, Handicapped
Flow of Events: User scans a code. Before information about the site is displayed, a brief ad will appear in the app window.
Pre-conditions: None
Post-conditions: A user must have scanned a code.
Exceptions: None
Special Requirements: Ads should be appropriately sponsored.

Using the Scanner

Brief Description: A QR scanner integrated into the app allows the user to scan various locations all over Arezzo.
Actors: International Tourists, Domestic Tourists, Handicapped
Flow of Events: User has the scanner open. User points the camera on their smart device at a symbol or code. The user takes a picture that is received by the app. The app searches for the given symbol or code. If the symbol or code is valid, the app will display a list of information about the location. If the scavenger hunt is ongoing, it will check to see if the symbol or code is on the list and check of the location or item.
Pre-conditions: Symbol must be within the designated bracket area to work properly.
Post-conditions: Scavenger hunt items must be properly marked. The list must appropriately display with accurate information and integrated ads for the given location.
Exceptions: Scavenger hunt should not mark off items that have already been found.
Special Requirements: The QR scanner must work as a standalone feature and with the scavenger hunt.

Other Requirements

Standards:

- The app must comply with all local laws
- The app must enable users to comply with all local laws, and in no way inhibit the user from doing so

System Requirements:

- The app will be supported on iOS and Android
- This app will require the use of the following mobile phone peripheral devices:
 - Camera
 - GPS / Tracking information

Licensing, Security, and Installation:

- This app will be installed from the app store of the respective user's device (iOS app store or Android app store)

Documentation Requirements

User Manual:

No manual is necessary nor will one be provided for this application, as it is designed to be as self-explanatory as possible.

Online Help:

The app's "Contact Us" feature puts users in contact with a support team and / or the development team of the application to answer questions and / or troubleshoot user issues.

Installation Guide, Configuration, and README Files:

No installation guide is necessary, as this will all be done by the respective user's device's OS. For configuration help, one can view the README files that explain the different accessibility information in more detail.

Labeling and Packaging:

The Tour Arezzo logo appears on startup of the application, as well as in A.R. sections when using the scanner function. The menu and submenu themes are as follows:

- Main menu theme
 - Blue boxes
 - Dark blue outlines for each box
 - White text
- Submenu theme
 - White boxes
 - Dark blue outlines for each box
 - Dark blue text

Glossary

App: Application, an executable program that provides the user with an interface to perform certain predefined functions

Arezzo: A city in eastern Tuscany, Italy, roughly 50 miles southeast of Florence

Augmented Reality (A.R.): A technology that superimposes a computer-generated image on top of the user's view of the real world through their device's camera

POI: Point of Interest; a specific location that is deemed historically important or culturally significant