# Project Idea

## Summary

Our idea for a project is to make a smartphone app (targeting Android / Google Play first) that will use Google’s location / maps API’s to find out where the user is and create a history of that area. The history of the area would appear as a timeline which is fully interactive, allowing the user to click on links to other learning resources. There would be a social networking aspect where user’s can create their own profile, save their favorite areas, and leave comments on the area’s they have visited for other users to see.

## Goals / Objectives

* Fast, efficient, and seamless
* Accessible to everyone
* Extendable to add in new features easily
* Smart and dynamic UI that feels good from a user-experience perspective
* Potential future iPhone app

## Technical Requirements

* Create a solid code-base that is extendable and hosted on the Google Play store
* Connect to Google’s Map / Location API’s to find the points of interest closest to the user
* Create a database which saves the users’ account, profile, favorite locations, and comment information
* Create a WCF Service that the app connects to for Database / Resource access
* Create a fully interactive and dynamic UI that creates a timeline of the area the user is in in a fast and efficient manor
* Use AI / Machine Learning to create the dynamic timelines / perform the searches on the areas

## Roles

* Database Manager
  + Determines Data Structure of tables
  + Creates Stored Procedures to collect the data
* AI Engine-Man
  + Creates the AI aspect for determining the history of the area
* Front-End Guru
  + Creates the UI (Html) and the JavaScript
  + Creates the Client-Side code
* Back-End Wizard
  + Creates the WCF service that connects to the Client-Side (at an entry point) and to the Database (at an exit point)

**Note: All roles will have to integrate with others at some point and all roles will have a research aspect tied to them.**

## Tentative Timeline

* 2-3 Weeks: Design Documentation, Research, Architecture Diagrams, Determining Structure
* 4-6 Weeks: Development (including unit testing)
* 1-2 Weeks: Integration & Integration Testing. Full publish at the end.