		Development Plan	Test & Demonstration Plan
February	7	- GUI Prototype -Basic OR algorithms implementation in Optimization Center (OC) -Project Database Schema/Outline	-GUI Prototype can be viewed -Optimization Center (OC): Functional implementation of OR algorithms explained and base test case
	14	-Further GUI Prototyping -Optimization Center (OC): Basic independent OR Backend System to read/write external file data -Early Database System Implementation	-Additional viewable GUI structures: Start Screen, Settings Screen, Constraint Specification Screen -OC: Read test cases from file and write optimized results to file -Externally usable DB
	21	-GUI Navigation -Refine OC System: add additional weighting heuristics -Refine DB	-GUI navigation implemented, responds to user inputs, opens appropriate windows, logical parents/children of screens established - OC testcases displaying new constraints and effect on optimization results
	28	-GUI to Database linking (login to User Profile & load DB Project) -Refine OR → Accept Generic Map	-Create and Load User Profiles /Projects within GUI + DB -More OC testcases to show acceptance of map data, ie. distance between points, region boundaries, etc.
March	14	-GUI Generic Map implementation -Project Sharing	-OC testcases to see reflected optimization from inputted Map - Generic Map demonstration - Sharing Project between users
	21	- Refine OR to take Map Info from Google Maps API - Implentation of default District Attributes: Census Data	-GUI for constraint specification -Test Cases for input from Google Maps API

		- GUI implementation of Google Maps API	-Data in additional constratints persist in DB
	28	-Additional user-defined constraints in GUI and Backend: Targeting, Weighting, Resources, District Attributes - What-If Scenarios -Introduce various various consumer friendly components (ie. alternate currencies, etc)	-Additional test cases w/ new constraints: show impact on optimization results from user modifying scenarios - What-If Scenario walkthrough - Demonstration of Currency Manipulation
April	4	-Routing (GUI + OC)	-Point-to-Point linear routes reflecting optimizations
	11	-Routing Continued: Enhanced routing and routing display	-Realistic routes reflecting optimizations (when using Google Maps)
	18	-GUI Refinements: Style Sheets & Additional Visualization -Final Bug Fixes -Code Optimization	-Refinement of UI to improve the look and consistency of boundary objects (colors, fonts) -Project Release

Gantt chart

	Feb				Mar			Apr		
	7	14	21	28	14	21	28	4	11	18
GUI Framework/Main Screen	▧	▧								
Project DB Schema/User Profiles	▧	▧								
Create + Load User Profiles/Projects Within GUI and DB	▧	▧								
GUI toolsets, windows			▧	▧	▧					
Share Project via DB				▧	▧					
Generic Map Implementation				▧	▧					
Optimization Center Accepts Generic Map and Produces Optimizations					▧	▧				
Google Maps API integration					▧	▧				
Integration of Default District Attributes (Census Data)					▧	▧				
What-If Scenarios						▧	▧			
Integration of User-Defined Constraints – GUI and Optimization Center: Targeting, Weighting, Resources, District Attributes						▧	▧	▧		
Currency Manipulation							▧			
Linear Routing Reflected in GUI								▧	▧	
Realistic Routing									▧	▧