

## Final Project Proposal

For my final project proposal, I intend to build a client-server application for an Android app that will track Santa's progress around the world using the published online NORAD data. The application will allow a user to create an account and have their user credentials stored encrypted in a database. The database will also contain their GPS coordinates and time zone information for use when determining when Santa has reached their neighborhood. The client will have the ability to enter multiple locations and remove locations as desired via a web front-end.

I intend to use the following technologies to develop and implement my program:

- Java Collections
- Threads, Executors, and Runnables
- Application Controller Pattern
- Hibernate
- MVC
- JSON
- HttpURLConnection
- Servlets
- JUnit Tests
- System Level Tests
- Use Case Diagrams
- Use Case Documents
- State Diagrams
- Sequence Diagrams

The basic structure of the program is shown below:

### Final Project Santa Tracking App Setup

