

## *EE/CprE/SE 492 Bi-Weekly Report 5*

*3/23/20 - 4/2/20*

*Group Number sdmay20-23*

*Project Title: Multi-Context Shopping Optimization*

*Client & Advisor: Goce Trajcevski, Ashfaq Khokhar*

*Team Members/Role: Max Garton - Meeting Lead, Arnoldo Montoya-Gamez - Deadline Manager, Ethan Shoemaker - Issue Tracker, Karla Montoya - Testing Specialist, Jesrik Gomez - Public Relations, Nate Wernimont - Meeting Scribe*

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## **Weekly Summary**

This week, the team began to fully integrate the subsystems and test functionality. We planned remaining work for project documentation, project deliverables, and the final presentation. Testing of the core use cases will be continued as more integration is completed. As we have switched to remote team and client meetings, it has become more difficult for us to work with hardware that must be shared by the whole team. To overcome this, we have adjusted our final demonstration plan so that we can still demonstrate the functionality of the entire combined system.

# Past Accomplishments

## Accomplishments during 3/23/20 - 4/2/20:

- Began integrating backend services with Android app (Arnoldo and Karla)
- Continued integrating sensor device with Android App (Max)
- Began integrating backend services with sensor device (Max and Ethan)
- Enhanced Android app user interface (Karla)
- Added backend service refinements for more simple integrations (Nate)
- Tested backend services (Jesrik)

# Individual Contributions

## Arnoldo:

- Researched front-end integration options
- Tried http using JSON and Protocol Buffers
- Helped Karla with front-end navigation issues

## Ethan:

- Planned and prioritized remaining sensor device tasks with Max
- Began integration plan of sensor device with backend services

## Jesrik:

- Maintained back end servers
- Tested services

## Karla:

- Implemented front end navigation
- Performed UI Testing
- Planned for integration

## Max:

- Began integration of sensor device with backend services
- Completed integration between Android application and sensor device
- Planned and prioritized remaining sensor device tasks with Ethan

## Nate:

- Add support for gRPC in all backend services
- Explained how gRPC will simplify lives of integrators
- Started making some automated tests

Name	Individual Contributions (Quick list of contributions. This should be short.)	Hours This Week	Cumulative Hours
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Arnoldo	Researched integration options. helped with front-end navigation issues. Did some manual tests to look for bugs in our app.	8	94
Ethan	Planned out remaining work involving the sensor device, including integration with the backend services.	8	89
Jesrik	Maintained back end servers and continued services testing.	10	81
Karla	Worked on navigation and IU testing	12	91
Max	Began integration of sensor device with backend services. Completed integration between Android application and sensor device.	8	116
Nate	Added gRPC support in backend services, started making automated tests	12	96

## Plans for Next Week

- **Max:**
  - Complete integration between Android app and sensor device
  - Test integrations for sensor device (between backend services and Android app)
- **Arnoldo:**
  - Fully Integrate App front-end with server
  - Search for more bugs and fix
  - fix app cosmetics (time permitting)
- **Ethan:**
  - Integrate data sensing code with command processing code
  - Work on readying the device for a presentable demonstration
- **Nate:**
  - Aid other services in backend integration
  - Finish an MVP of the routing service
- **Karla:**
  - Help with integration
- **Jesrik:**
  - Aid other services in back end integration
- **All:** Begin working on final project documents and presentation.

# Summary of Weekly Adviser Meeting

In our meeting with Goce on March 30th, each subteam talked about the progress of their project and what the final project should look like. Due to the rest of the semester being online, delivering the hardware part of our project will be difficult, so we talked about what the final demo and project should look like. We also planned the remaining documentation for this project, which includes the final report, updated design document, and presentation.