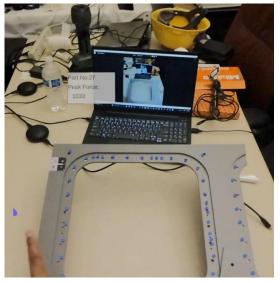
L+G Software Development Internship

Amirita Manickandan









About Me

- Rising Senior at Georgia Tech
- Computer Science Major
- Previous Internship in AR headset app development

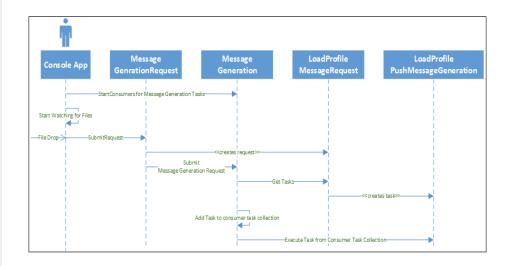
Project Details

Team: TEPCO NAM8

Customer: TEPCO

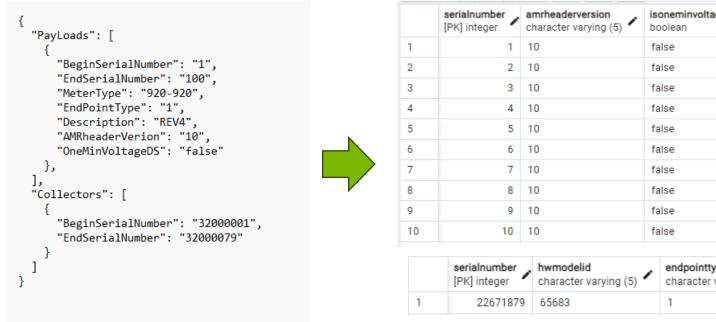
Fukushima Nuclear Disaster

- Over 20 million meters deployed
- Meters replaced every 10 years
- Application: M2M Test Harness a console-based application to simulate mass deployment of smart meters to test issues on scalability and performance
- Task: Change JSON file-based operations to databasedriven operations
- Goal: Facilitate the process of testing meters by allowing state management



Tasks Completed

- Moved contents of a JSON file specifying meter parameters to PostgreSQL database
- Coded the logic necessary to connect to the database from Visual Studio and retrieve these parameters
- Removed redundant parameters such as description and metertype (corresponded to endpointtype and hwmodelid)
- Created a script to move data from Oracle to PostgreSQL to populate this table with real data



1	1	10	false			2	
2	2	10	fa	alse		2	
3	3	10		false		2	
4	4	10 false		alse	2		
5	5	5 10		false		2	
6	6	10		false		2	
7	7	10		false		2	
8	8	10		false		2	
9	9	10		false		2	
10	10					2	
	serialnumber [PK] integer		hwmodelid character varying (5)) /	amrheaderversion character varying (5)	

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What I Learned













- Experience with various technical tools
- Applied OOP principles in a practical context
- Communicated with development team through sprints and standups
- Debugged and optimized scripts for performance

Reflection

- Benefits to L+G
- Streamlined data transfer between Oracle and PostgreSQL
- Developed scripts to automate database tasks

Special Mentions:

- Manager: Neelima Katpalli
- Mallesu Kante
- Luke Fischinger
- Siva Suthram
- TEPCO NAM8 Team



Recommendations

- More collaboration between interns in the software development team
- More opportunities to shadow team members and learn about other teams and projects

Thank You