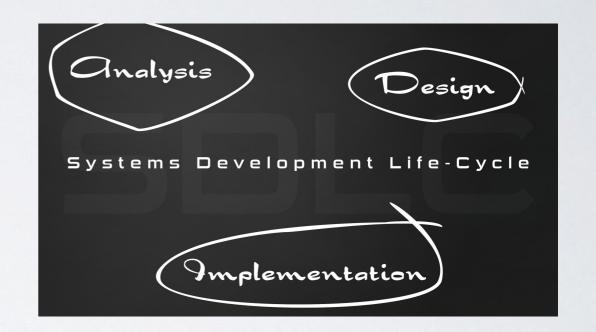
## AGILE DEVELOPMENT WITH IMS

Christopher Bell LASiGMA

# SOFTWARE DEVELOPMENT



## WHAT IS SOFTWARE DEVELOPMENT?

- Software Development(SD) is the idea that there should be some process when creating software.
- The cycle of SD usually consist of the following:
  - Specifications
  - Requirements
  - Design
  - Implementation
  - Testing
  - Maintenance

### CHALLENGES OF SOFTWARE DEVELOPMENT

Deadlines

- Low levels of productivity for developers
- Low satisfaction levels for clients

### AGILE DEVELOPMENT

Agile Development

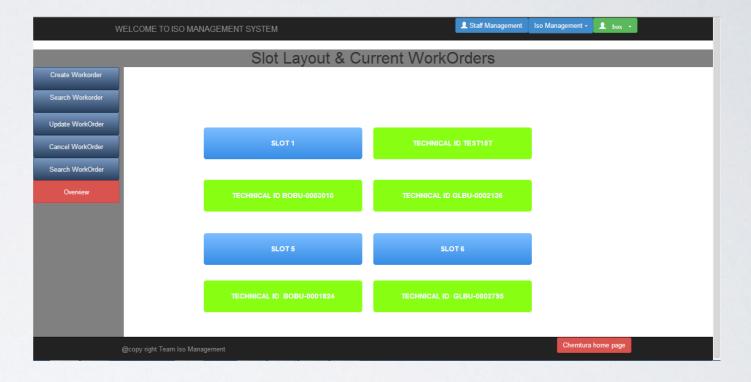
### WHAT IS AGILE DEVELOPMENT?

- Popular software development methodology
- · Goes through the normal software development cycle but, does so in iterations.
- Typical Agile life cycle looks like the following:
  - Normal Development Life Cycle
  - Release
  - Review
  - Accept?
    - Yes
      - Release to Market
    - · No
      - Repeat

#### WHY IS THIS BETTER?

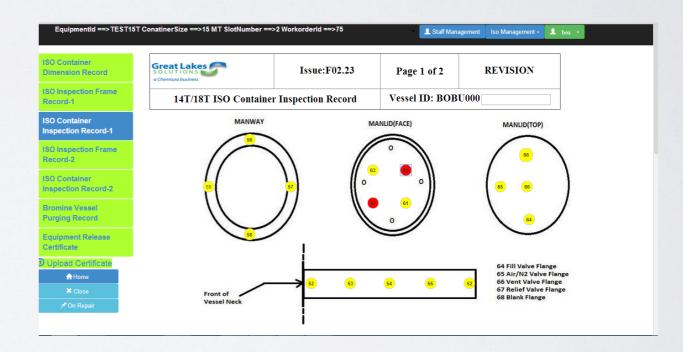
- Better quality software due to test driven development.
- More productivity from developers.
- More involvement with clients.

IMS



#### IMS

- Workflow management system for Chemura.
- Helps with the flow of tanks coming in and out.



#### MY CONTRIBUTIONS

- Workflow management
  - Jira
  - Github
  - Testing

### JIRA

- Software used for the following:
  - Tracking Issues
  - Assigning work to developers
  - Create reports on issues and speed of development



#### GITHUB

- Software used to do the following:
  - Reduce source code conflicts
  - Make sure each developer has the latest version of code
  - Offsite location for backups of code

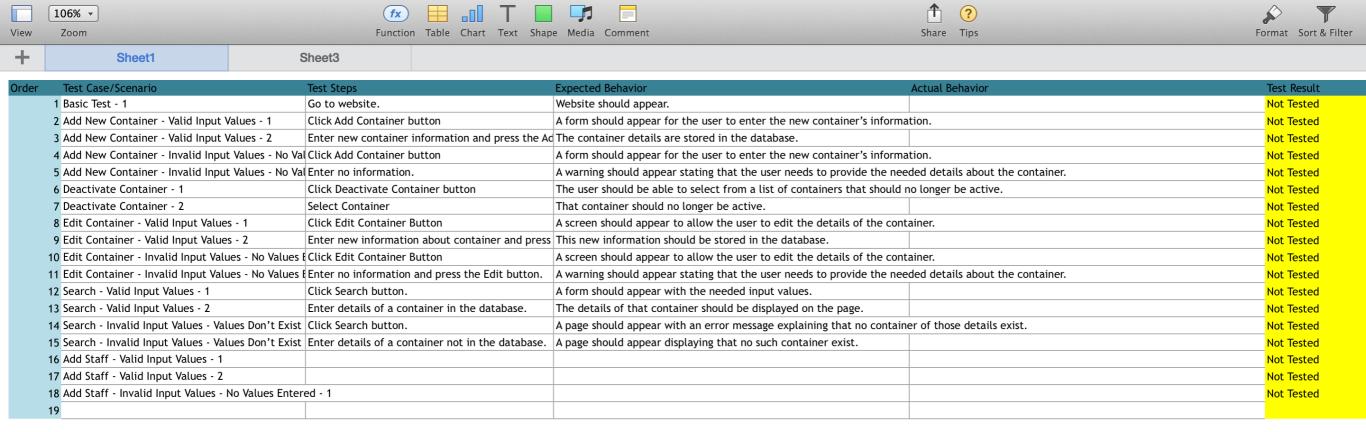


TESTING

Please Keep Quiet While Testing!

#### TESTING

- Testing is the process of finding bugs in a project.
- Needed to assure the quality of a project.
- Requires its own planning to make sure important bugs are caught.



#### CONCLUSION

- IMS was a learning experience to better understand:
  - The Software Development process
    - Agile Development
  - Why testing is important
  - Workflow management tools for developers
  - · Dealing with real world situations when developing software