

Adam Tremonte, Andrew Thomas, Emily Huynh, Patrick Dixon

The Problem

- 3D printing is finicky
 - Configuration
 - Slicing
 - Adjusting
- Services like Octoprint only help so much
- Still many moving parts
 - Model creation
 - Pre-processing
 - Slicing
 - Upload and printing

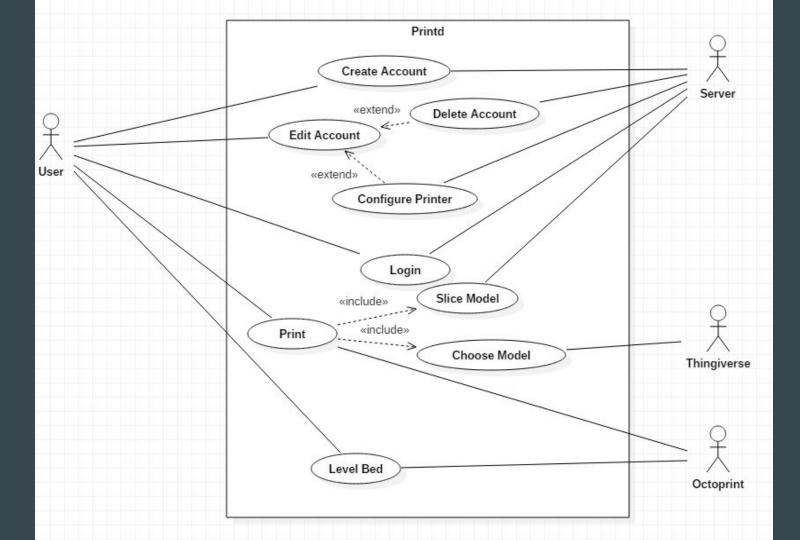


Our Scope

- Android application
 - Connects with:
 - Thingiverse
 - Octoprint
 - Slicer Server
 - Filament Tracking
 - Printer Configuration and Maintenance functionality



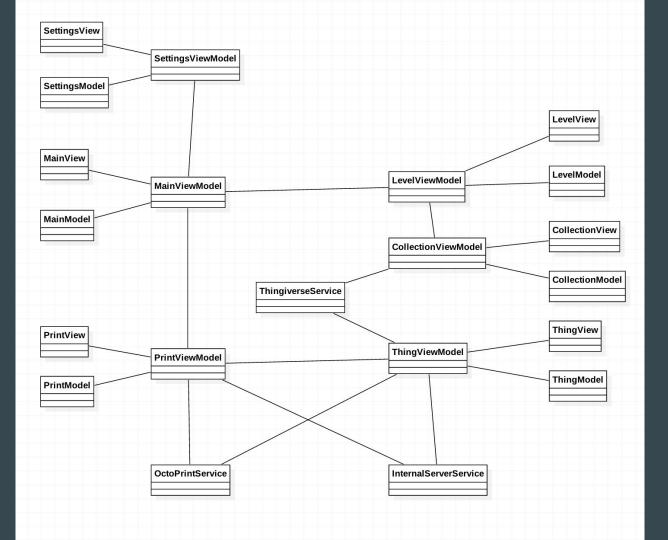
Use Cases



Class Diagram

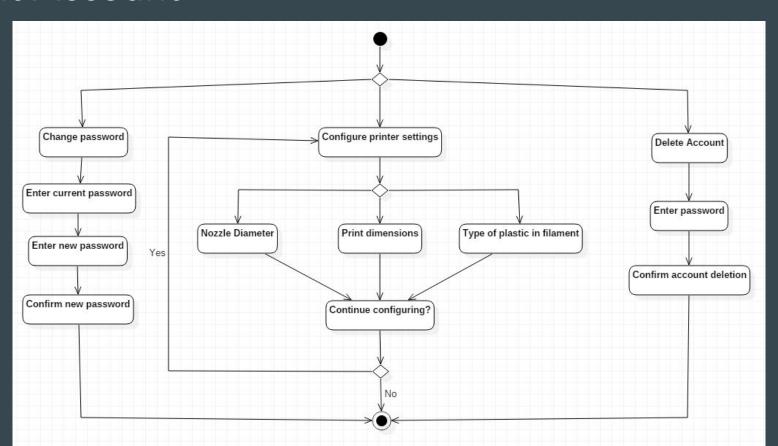
Interface Mockup



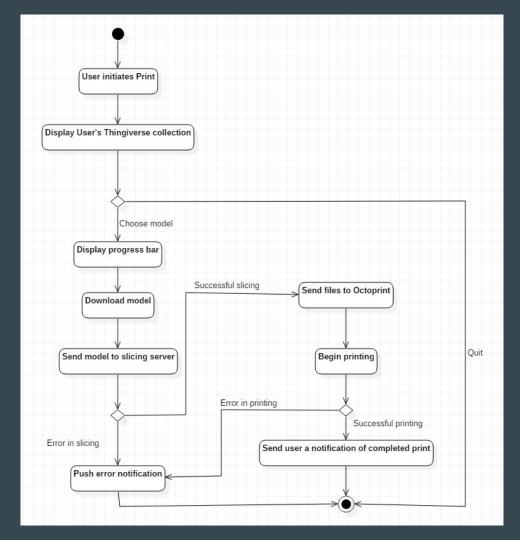


Activity Diagrams

Edit Account



Printing



Feature Priority

- Printing from Thingiverse Required
- Custom Slicing Server Required
- Assisted Bed Leveling Possible
- Filament Tracking Possible
- Thingiverse Browsing Future Work

Potential Risks

- → Fire
- → API problems
 - Legal issues
- → Printer communication

Our Perspective

- Lots of moving parts in this project
- Needed system in the community
- Could be more complex than anticipated
- Only Andrew has a 3D printer



Start Print

Thingiverse

Thanks!

Questions?