

Criterion A: Planning

PROBLEM: My dad is the client, who is a real estate developer. He is involved in a number of projects which he calls his “portfolio”, and each project he is involved in has coworkers, each with their own respective “portfolio”. My dad constantly complains though how coworkers oftentimes fail to communicate important information about certain projects, which makes his work more confusing. I talked to him about it, and he thinks a computer program would be able to smoothen out the communication process involved with these certain projects. After consulting with him, I suggested that I could create a java program that inputs certain information about his different project, and each coworker would have a unique account and login.

SOLUTION: My java program will be able to allow my dad’s coworkers to log into their unique account. Each account will have a unique main menu displaying all the projects the respective client is involved in. Any projects not involving the logged in client will remain invisible. Users will also be able to create new projects, and add specific coworkers to those projects. Users will be able to view their projects in their portfolio and its data, as well as edit it. Additionally, each project will have a board of tasks and comments, allowing the users to add project tasks and comments related to the project. I will program in Java because...

- I’m learning it in school
- Platform independence (since coworkers could have different OS’s)
- Its object oriented (so I can make multiple instances of classes)
- Eclipse helps visualize JComponents before execution
- It supports text file reading and writing
- Although the JVM isn’t known for speed, this light Swing application shouldn’t have any lag times between processes

Success Criteria:

- Allow certain users access to their accounts while rejecting unknown users
- The client can view a menu of their current projects
- The client can create new projects and share them to other coworkers/clients
- The program can input data values and store them to the respective project
- The program can log comments inputted from different coworkers/clients
- The program can log events inputted from different coworkers/clients

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