Software Eng. Project

Team 2

What We Are Doing

- Team Meetings and Communication
- Agile Scrum and Trello
- Roles
- Project Requirements
- Extra Credit

Team Meetings and Communication

- Github Discussion Boards
  - Meeting Recaps
  - Resources

- Email
  - Individual questions and concerns

- Meetings are every week at 9pm, Mondays using Skype
- Every meeting, we will sign into a Meeting Attendance Sheet
  - I shared it with you on Google Drive

Agile Scrum and Trello

- We meet once a week to:
  - Review previous sprint
  - Review work to be done from backlog
  - Select items for the next Sprint
  - Plan Sprint

- If you need help doing something:
  - Send me an email (kuleszar@kean.edu)
  - Mention it on the Github Discussion Board

Agile Scrum and Trello

- Backlog Board
  - This board tracks the completion of our backlog
  - At meetings, when we complete a feature in a sprint, we update this board.

- Sprint Boards
  - During our meetings we will create a board to track the progress of the sprint
  - We update a Sprint Board on our own when we complete a task

- I will save copies of the backlog and sprint board to document that we are using an Agile Scrum process

Roles

- We are only four people – I split roles between multiple people.

Name	Role(s)
Rob	Team Lead, Project Manager, Software Developer
Mike	Software Architect, Software Developer
Emily	System Analyst, Software Developer
Francis	IT Professional, Software Tester (QA)

Project Requirements – The Basics

- Everyone has an IEX Cloud Account. If one key expires for the month, we switch it for another person's.
- We will use Java
- Restful API
  - We will use Java's Apache / HTTP libraries

Project Requirements – Requirement Engineering (Emily)

- System Requirements
  - x64-bit computer
  - Windows
  - I5 processor or similar
  - >= 8gb ram
  - Java
  - Whatever the minimum between our systems consist of

- User Requirements
  - general requirements = assignment document
  - Create system models to model the requirements (e.g. set of use cases)
  - Add set of requirements to backlog

Project Requirements – Architectural Design (Mike)

- Design solutions based on the System Model / Requirements
  - Create Architectural view
  - Choose an architectural pattern
    - Model-View-Controller

Project Requirement – Software Design and Development (Mike, Emily, Rob)

- Create sequence model or state diagram for what you are charged with implementing per sprint
- Implement

Project Requirement - Database Design (Rob)

- Use SQLite
- Write up table design
- Query Design

Project Requirement – Documentation (Francis)

- Write up how to install and use the application as a user
  - How to you use each feature
  - What does each feature do
  - Etc.

Project Requirements – Software Testing (Francis)

- After each Sprint:
  - Apply various inputs to the feature application we developed
  - Document each step, and if something goes wrong create a “Scenario” and add it to the Backlog

Project Requirements – 2 Features

- We need to choose 2 additional features to the project.

- Here's One Idea:
  - Include a feature that does a side-by-side comparison between 2 stock symbols (graphs them together, etc.)

- Any Ideas?

Extra Credit

- Not a priority; if we have time

- Statistical / Machine Learning Feature
  - Java program → Command Line → Python
  - Naïve Bayes to predict future stock statistics ?

- Additional Charts for Selected Data
  - **https://github.com/knowm/XChart**
  - **http://www.jfree.org/jfreechart/ (well documented)**

Any Questions?