

Crystal Advanced Analytics

Milestone 4

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Sponsor: *Department of Computer
Science*

Progress of Current Milestone

Task	Completion	To do
Improve System accuracy (Classifier)	100%	Classifier's accuracy improved by 15%. Currently at 72.37% with NB, and 71.37% with decision tree classifier
Implement Benchmarking Tool	40%	Complete implementation of benchmarking tool
Implement Dashboard on Website	70%	Improve dashboard and implement graphs
Improve Website	50%	Connect data to graphs, improve GUI

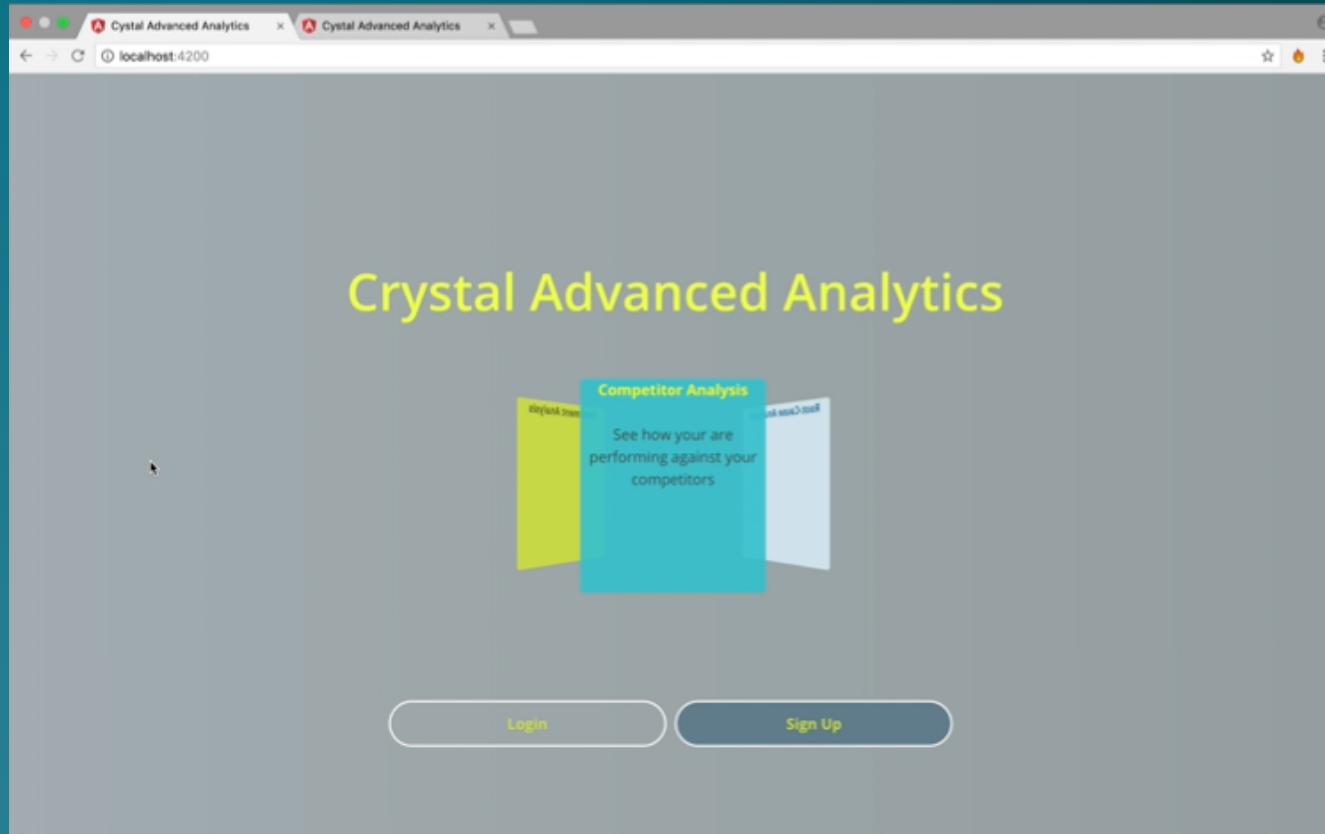
Discussion of each accomplished task for current milestone:

- Task 1: Improve System Accuracy
 - System accuracy was improved by ~15%.
 - Naïve Bayes: 72.37%
 - Decision Tree: 71.37%
 - K-Neighbors: 69.31%
 - Linear SVC: 64.3%
- Task 2: Implement Benchmarking Tool
 - Retrieved Data from different airports, JFK and HKG.
 - Convert reviews from non-English medium to English
 - Py-translate library
- Task 3: Implementation of Dashboard
 - Dashboard was successfully implemented with different components
 - Service Overview
 - Benchmarking component

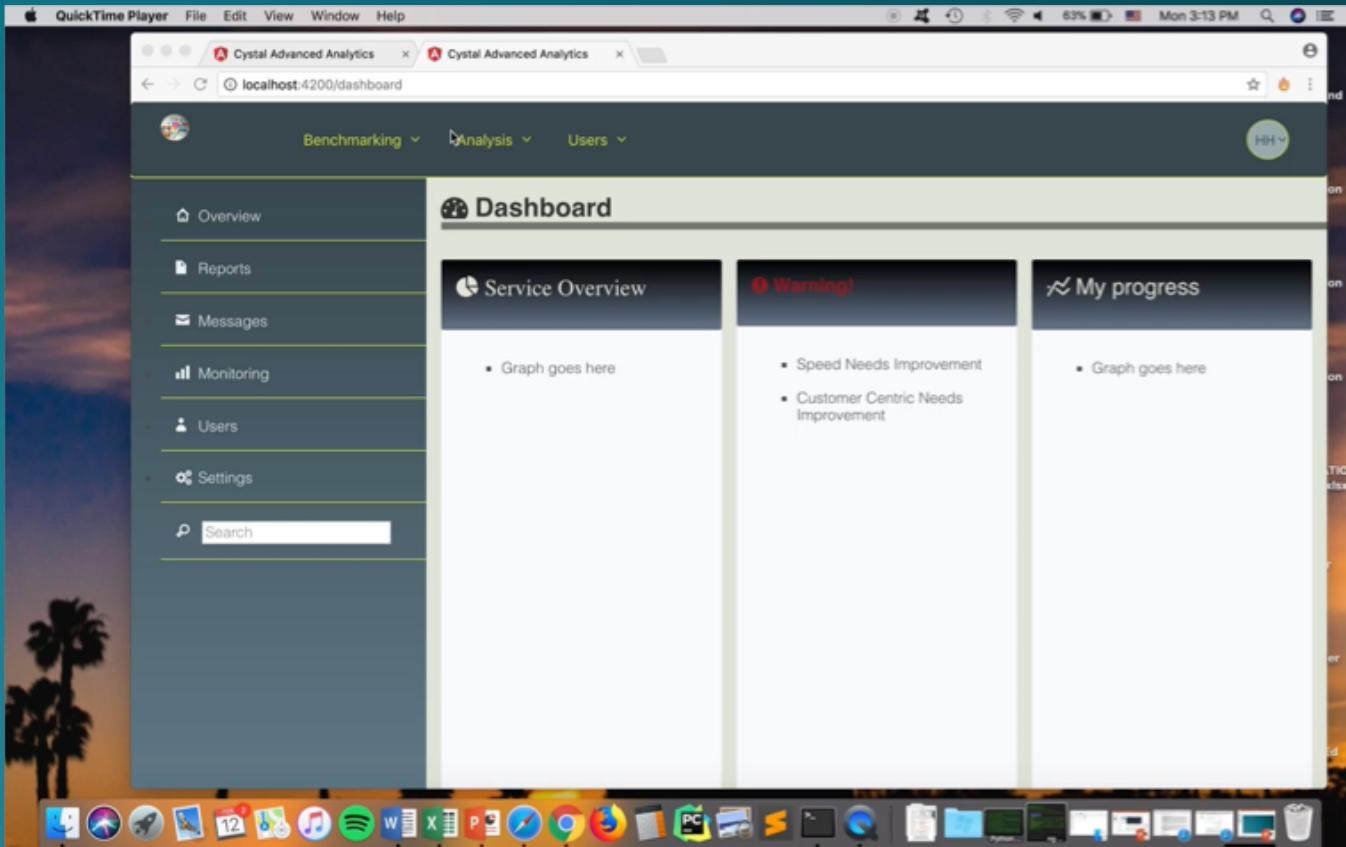
Discussion of each accomplished task for current milestone:

- Task 4: Improve Website
 - Improved Home Page
 - Added drop-down menus
 - Investigated types of graphs for representing different types of data

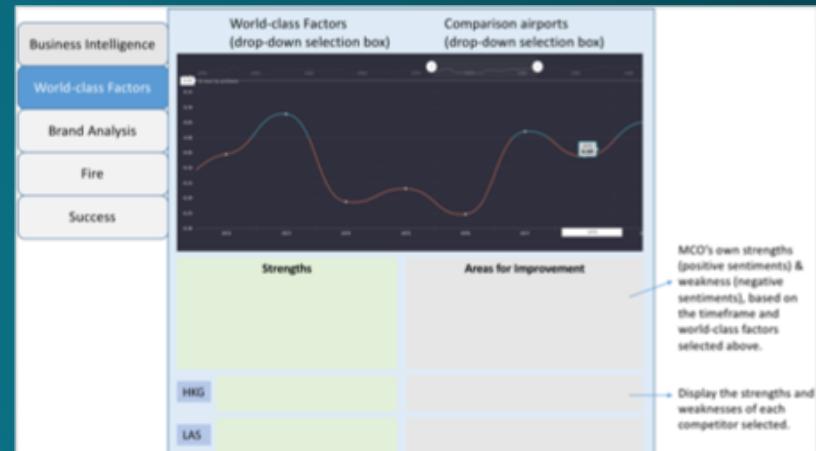
Demo : Home Page, Sign-in, Sign-up



Demo : Dashboard



Mock-up : Dashboard



Plan for Next Milestone

Task	Harshil
Complete Implementation of Benchmarking Tool	100%
Implement, Test and Demo Root-Cause Analysis	100%
Implement graphs on Dashboard	100%
Improve website	100%
Showcase Poster	100%