Requirements Analysis Document

Team 7

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Project Manager: Dax Collison

Epic: Virtual TA Chatbot		
Story 1 - Website for user to interact with Chatbot	Task 1 - Create a web page layout on the frontend using REACT.js Description: Use React.js to build the main page layout Hours: 10 Task 2 - Create chat bot user interface Description: Use React.js to create the interface for the user to interact with the chat bot Hours: 20 Task 3 - Set up page hosting and deploy Description: Host the webpage using GitHub pages Hours: 5	
Story 2 - Chatbot answers user questions in a visual way	Task 1 - Build UI to display graph Description: Design/scope out how the output image will look like Hours: 10 Task 2 - Train model to display graph based on user interface Description: Model should output a graph based on text input from user Hours: 20-30	
Story 3 - Chatbot will direct user to proper resources if it cannot answer	Task 2 - Create default answer if bot is unable to recognize question • Description: Train the model to redirect unrecognizable questions to eLearning or the professor's resources • Hours: 20-30	
Story 4 - Chatbot can answer Algorithm and Data Structures questions	Task 1 - Create an Al/ML model on the backend that uses a dataset from Stack Overflow, Wolfram Alpha and Wikipedia • Description: Train the model using available datasets to be able to answer DS&A questions • Hours: 30-40	
Story 5 - Chatbot API	Task 1 - Allow chatbot to be accessed via API Description: Create easy to use functions that allow other programs to use chatbot Hours: 15	

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Story 3: Chatbot will direct user to proper resources if it cannot answer

Task 2: Create an input for professor to provide resources for students that the bot will direct them too

- Description: Allow the professor to upload documents/resources through the webpage
- Hours: 20-30