



ChatterJack Chatbot

Design Review #1

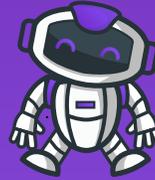
Team Member: [Sara](#), [Jiasheng](#), [Tyler](#), [Gabriel](#)
Faculty Mentor: [Felicity H. Escarzaga](#)
Client: Dr. Andy Wang
Date: 11/19/2021

Problem Statement:



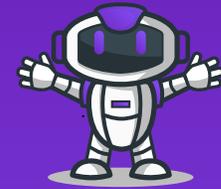
01. Distraction of Staff

- ❖ Staff have a job to do and needing to answer questions may pull them away from other tasks
- ❖ If they do not know the answer to a question then they must find it



02. Scattered Data

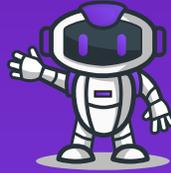
- ❖ Data regarding the university is scattered and buried under complex queries and countless portals



03. Unanswered Questions

- ❖ Students/Visitors have many questions and cannot always find the answer online
- ❖ Could email, leads to wait times and often leaves questions unanswered

Solution Statement



01. Centralized Database of Q/A

- ❖ Place data in a central location for ease of accessibility



02. Easily Updatable

- ❖ Updatable information behind an authentication system
- ❖ Keeps information up to date and allows manual entry of information



03. Quick answers

- ❖ Provide answers to visitors/students in a short amount of time
- ❖ No question left unanswered (provided the bot knows it)

Requirements Acquisition

- ❖ Client Meetings
 - As needed
- ❖ Group Discussions
- ❖ Research on other chatbots

User Level Requirements

- ❖ Users will be able to type their message
- ❖ Users will be able to speak their message
- ❖ Users will be able to view the answer (chatbot response)
- ❖ Users will be able to submit feedback
- ❖ Chatbot Administrators will be able to edit Q/A pairs

Functional Requirements

01.
User Interface

02.
Database Management
System

03.
Authentication
and Security

04.
Algorithm

User Interface

Database

Authentication
and Security

Algorithm



NonFunctional Requirements



❖ Speed

❖ Security

❖ Usability

Environmental Requirements

Operating System

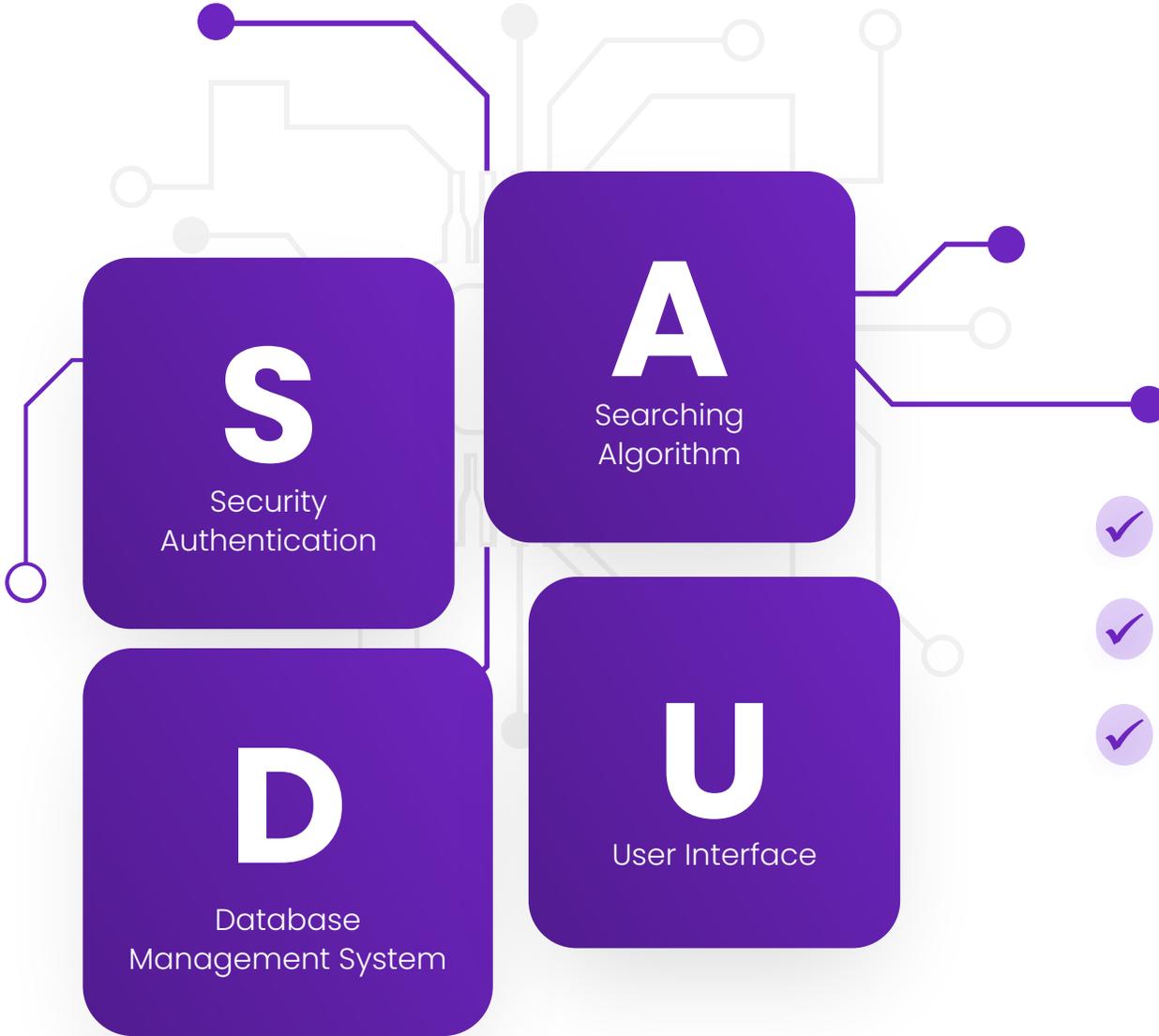
- ❖ Mac
- ❖ Windows
- ❖ Linux

GUI

- ❖ Intuitive Design
- ❖ A face
- ❖ Clean and Simple

Robot

- ❖ ChatterJack M.E. Project
- ❖ Physical Integration



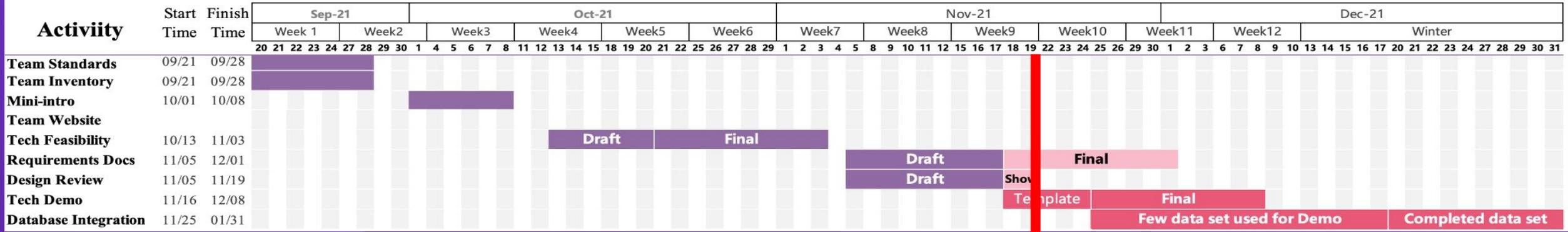
Risks and Feasibility

- ✓ Unauthorized user access to database
- ✓ Incorrect answer return to user
- ✓ Out of date information/maintenance

Project Schedule

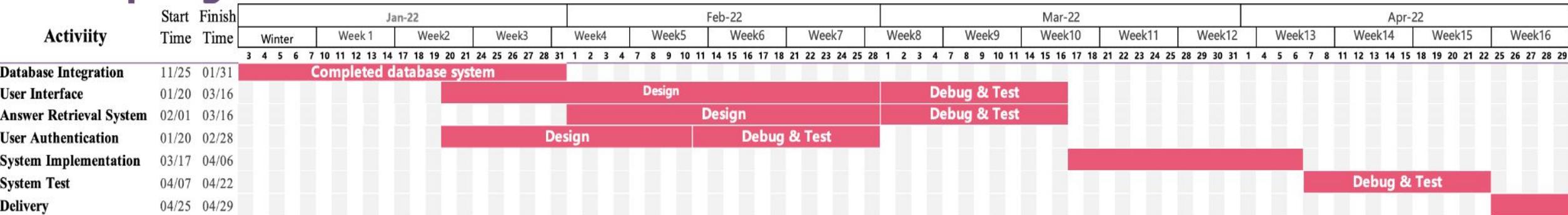
2021 Fall Winter

Complete
 In Progress
 Plan
 Now Line



2022 Spring

Complete
 In Progress
 Plan



The Activity for next semester

- ❖ Database Integration (12/01/2021 - 01/31/2022)
- ❖ User Integration (01/20 - 03/16)
- ❖ Answer Retrieval System (02/01 - 03/16)
- ❖ User Authentication (01/20 - 02/28)
- ❖ System Implementation (03/17 - 04/06)
- ❖ System Test (04/07 - 04/22)



Conclusion

- ✓ Rule-Based Model
- ✓ Deployed it on the NAU server
- ✓ Open source
- ✓ Set a foundation



07 Questions



**Get in touch
with us**

JabberJack always jabbers

“Intelligent brain” for LumberJack



@JabberJack

