Alpha Presentation
Digital Avatar Assistant
The Capstone Experience
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Fall 2021
Project Overview

• Assistant designed to help with budgeting
• Assistant reads information from user account
• Assistant offers custom predictions and budgets for different categories
• Animated avatar will serve to emulate real conversation between assistant and user
System Architecture

- Chatbot Open Source Framework
  - NLU Pipeline
  - Dialogue Policies
- Agent
- User Interface
  - RASA Open Source HTTP API
  - React
- AWS
  - Tracker Lock
  - Model Storage
  - Speech-to-Text
  - Custom Actions
  - Machine Learning
  - Text-to-Speech
Desktop Website Widget
Hi Annie! I'm Ally Budget Bot!

Is there anything I can help you with today? - Set budget - Check total largest spendings per category - Get analysis for this month

Can I set a budget?

Do you want to set your overall budget or by category?

Overall please!

For the past 30 days, I found you spent a total of $1418.0.
Mobile Website Button View
Mobile Website Opened
What’s left to do?

• Design and animate digital avatar
• Set up backend and deploy bot on AWS
• Add longevity for slot values through querying a database
• Implement ML capabilities for custom actions
• Integrate text-to-speech & speech-to-text capabilities into UI
• Add to NLU for more lifelike conversations
Questions?