MICHIGAN STATE
U N I V E R S I T Y

Alpha Presentation
Faia: Fashion Artificial Intelligence Assistant

The Capstone Experience

Team Amazon

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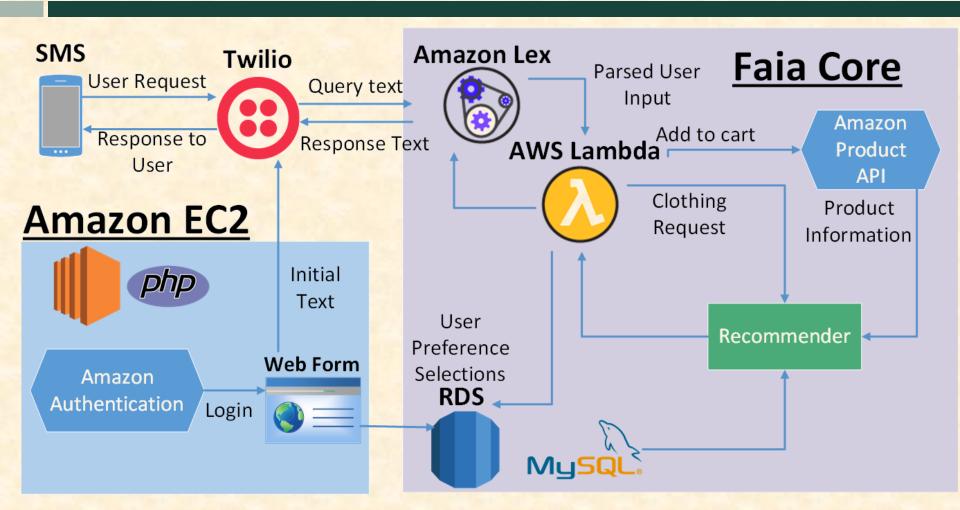Department of Computer Science and Engineering
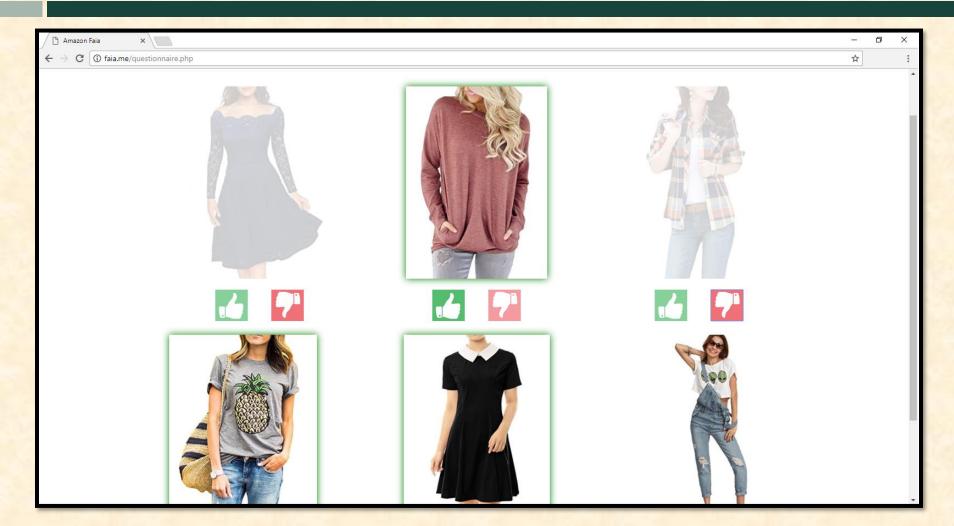Michigan State University

Fall 2017

From Students…
   …to Professionals

Project Overview

- Recommends clothing based on previous tastes
- User communicates with Faia directly through SMS
- Learns and improves clothing suggestions based on likes and dislikes
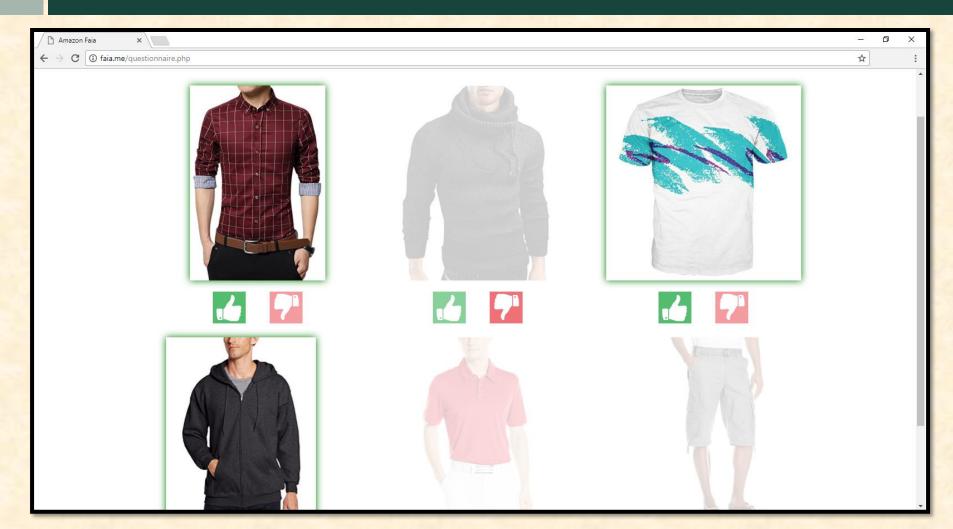- Uses NLP for casual communication to ask for clothes and put them in Amazon cart
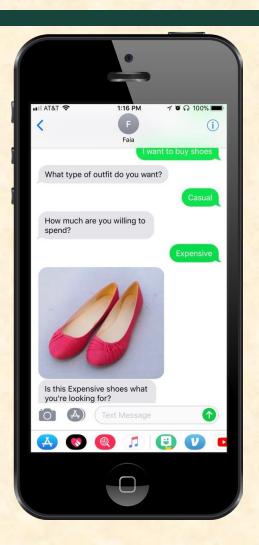
System Architecture

Web Form: Questionnaire (Women)

Web Form: Questionnaire (Men)

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SMS Interaction

What's left to do?

- Build recommender
- Choose questionnaire items to give good starting data for recommender
- Make Lex accept more complicated commands
- Get user feedback on feel of product

Recommender

- Items from the Products database have labels

- Assign numbers to those labels

- Assign weight to labels based on how much they contribute to the style decision

- Calculate scores using these numbers compared to user likes and dislikes

- Return highest scoring item

Chatbot

- Provide sample utterances to recognize user input
- Amazon Lex automatically uses deep learning to understand the input
- Amazon Lambda functions handle the responses to each intent recognized from the input
- Amazon Lex and Lambda communicate with JSON formatted data

Questions?

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