

MICHIGAN STATE

U N I V E R S I T Y

Beta Presentation

Symptom Checker

The Capstone Experience

Team Spectrum Health

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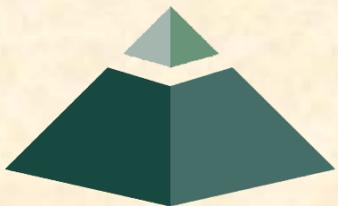
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Fall 2017



*From Students...
...to Professionals*

Project Overview

- Symptom Checker
 - Users describe how they are feeling
 - “I have been coughing a lot lately.”
 - User input is matched with chief complaints or synonyms of those complaints and is presented a ranked list of conditions to pick from
 - When a user taps on a condition that sounds similar to what they’re experiencing, they are recommended a service
 - E.g. MedNow, Emergency Department, Urgent Care

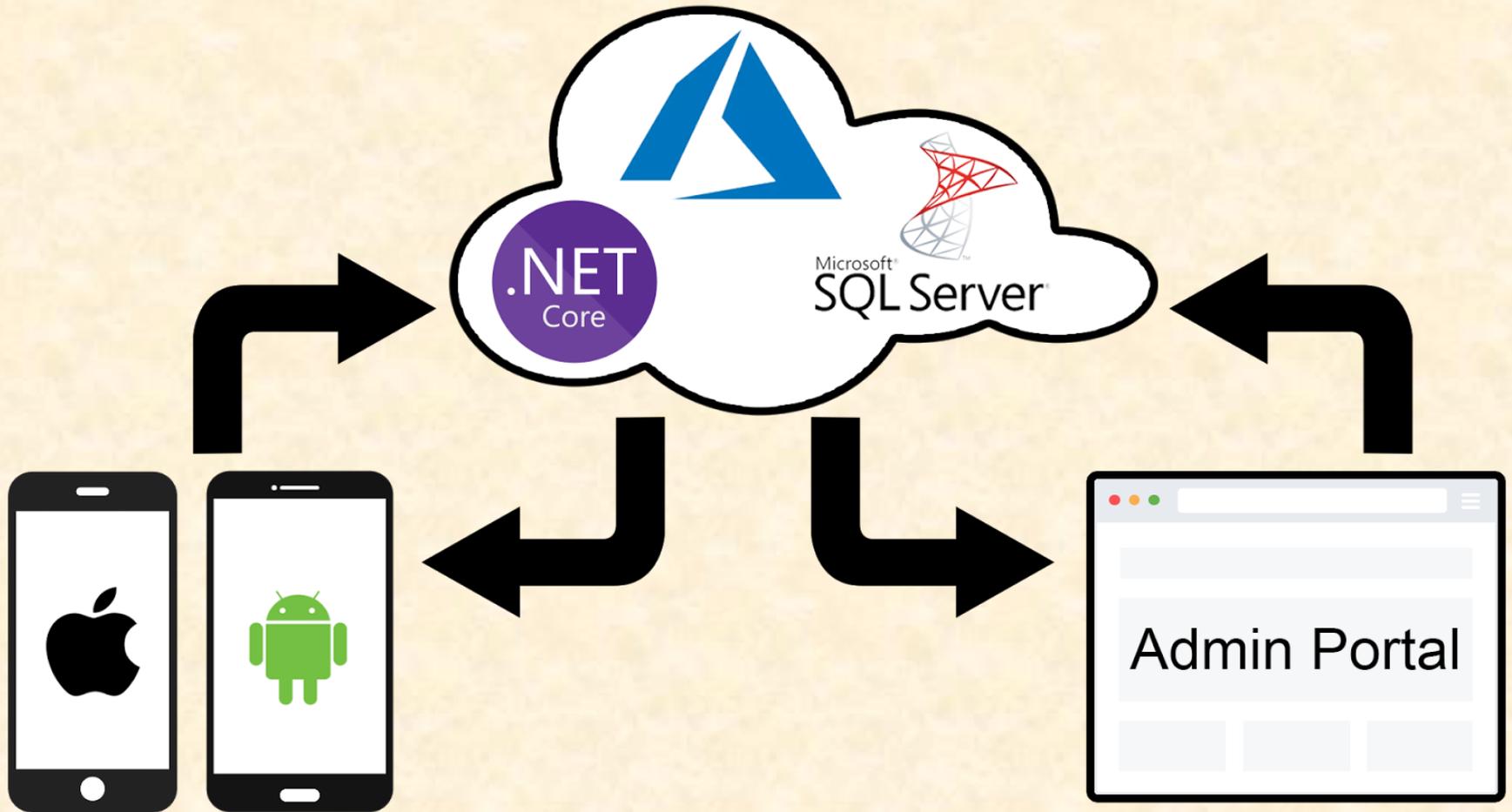


Project Overview

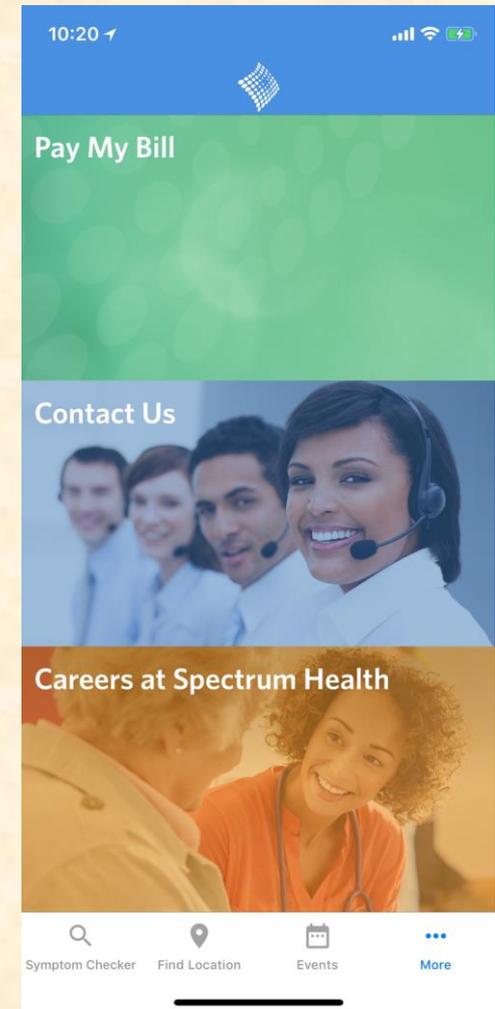
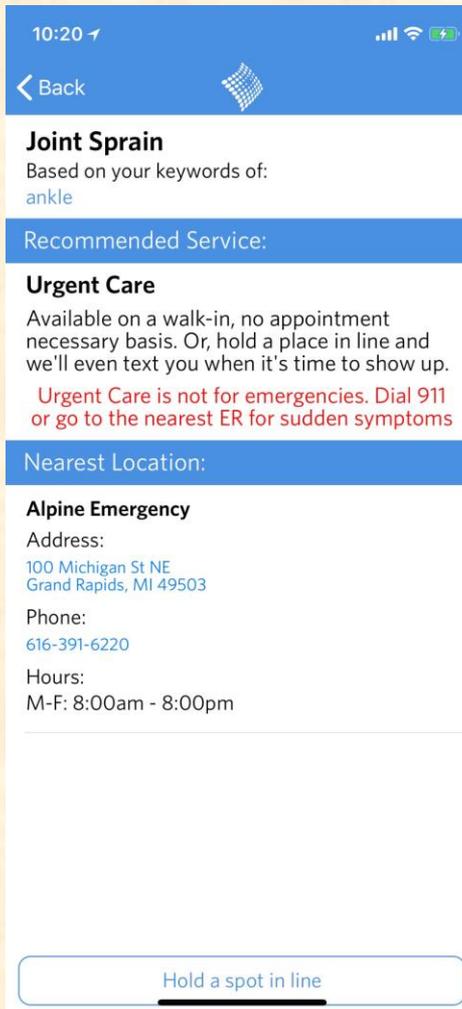
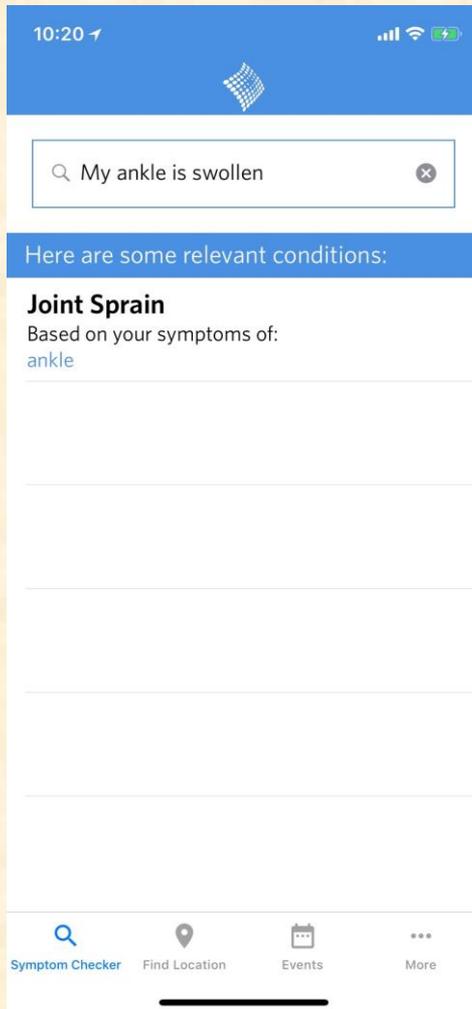
- Home screen
 - Provides quick access to frequently used features
 - Allows users to quickly learn more about Spectrum Health
- Urgent Care appointment scheduling
 - Enables users to schedule appointments once they're recommended an Urgent Care visit
- Pay My Bill, Careers, Contact Us
 - Users can quickly access the web portals for these Spectrum Health services



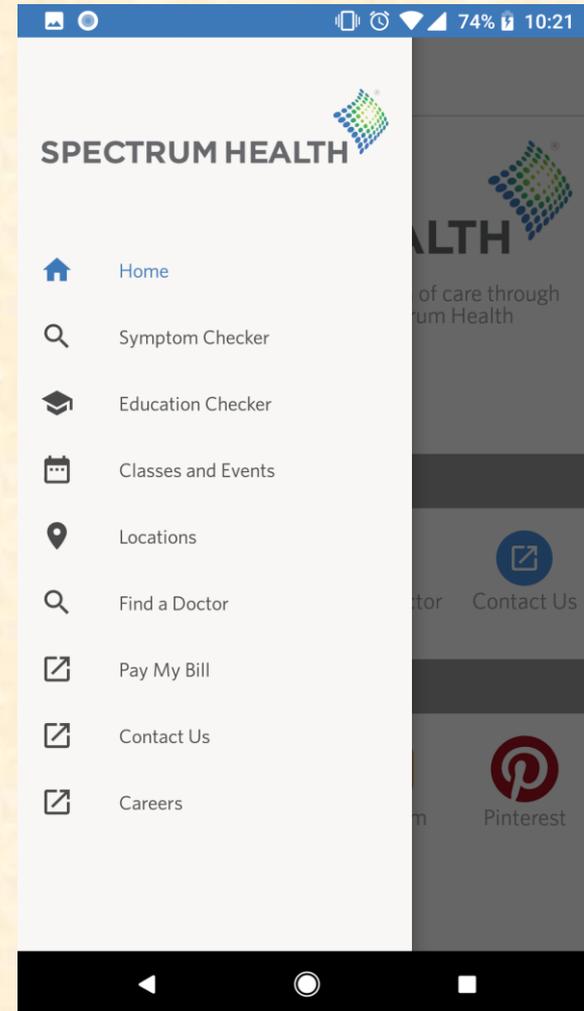
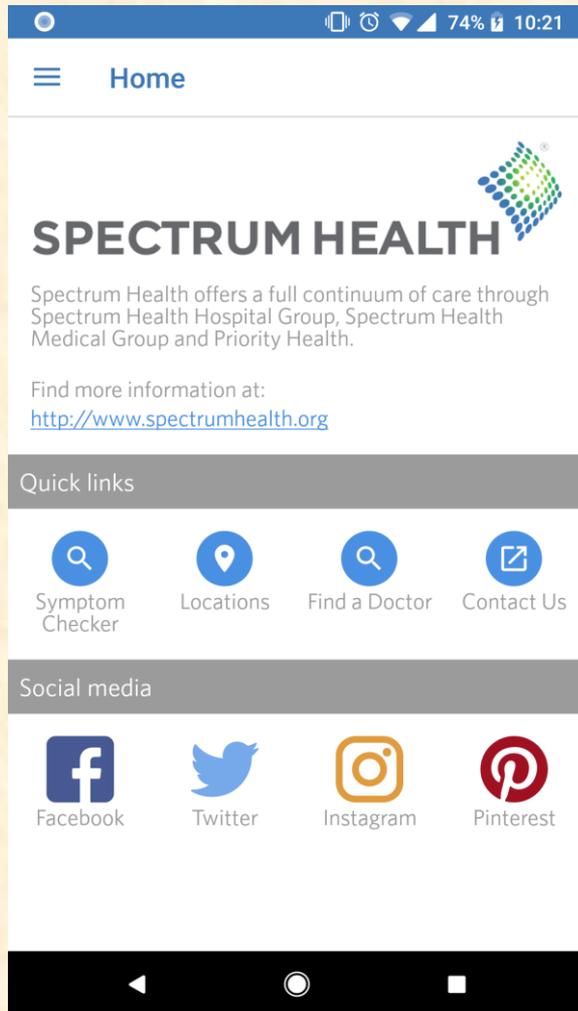
System Architecture



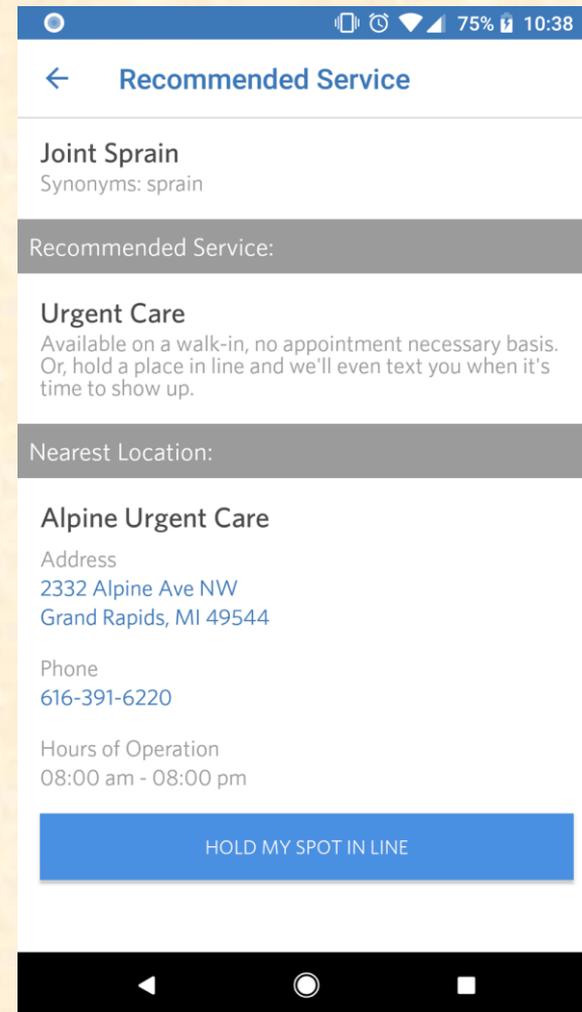
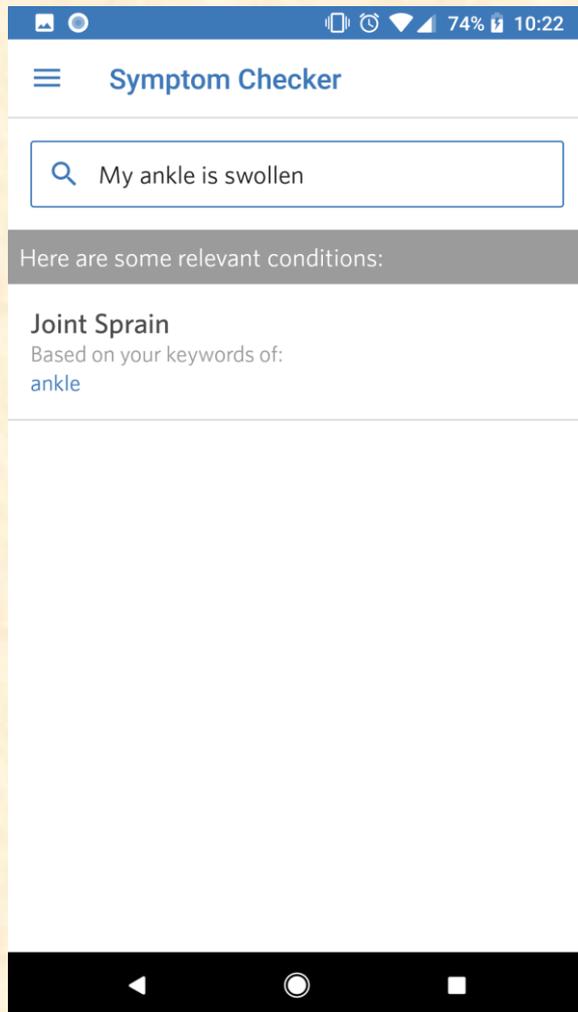
iOS Application



Android Application



Android Application



Admin Portal – View Conditions

Diagnosis Routing Admin Home Conditions

Conditions

[Create New](#)

Name	Service	Synonyms	
Allergies	MedNow	hay fever, aversion, hypersensitivity, sensitivity, susceptibility, vulnerability, allergic reaction	Edit Delete
Back Pain	MedNow	sore back, stiff back, lower back pain	Edit Delete
Birth Control	MedNow	the pill, contraceptive, morning after pill, estrogen, progesterone	Edit Delete
Bites and Stings	MedNow	bug bite, bee sting, snake bite	Edit Delete
Cardiac Arrest	Emergency Department	heart attack, bad ticker, chest pain, heartburn	Edit Delete
Acne	MedNow	blackheads, pimples, pustules, rosacea, whiteheads, zits, pizza-face, skin inflammation	Edit Delete
Joint Sprain	Urgent Care	sprain, strain, twisted ankle, strained wrist, sprained wrist	Edit Delete
Alcohol Problem	Emergency Department	severe diarrhea	Edit Delete

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Admin Portal – Add/Edit Condition

Diagnosis Routing Admin Home Conditions

Edit Condition

Name

Service

Synonyms

hay fever x aversion x hypersensitivity x
sensitivity x susceptibility x vulnerability x
allergic reaction x

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What's left to do?

- User testing
- Documentation
- Remove any/all IDE warnings
- Clean code and prepare to turn in
- Coordinate design specifications with Grand Valley State University team



Questions?

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