Beta Presentation
Symptom Checker
The Capstone Experience

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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

.NET Core

Microsoft SQL Server

Admin Portal

Apple

Android

[Diagram showing the integration of .NET Core, Microsoft SQL Server, and the integration with mobile platforms and an admin portal]
iOS Application

Here are some relevant conditions:

**Joint Sprain**
Based on your symptoms of:
ankle

**Recommended Service:**

**Urgent Care**
Available on a walk-in, no appointment necessary basis. Or, hold a place in line and we’ll even text you when it’s time to show up.

Urgent Care is not for emergencies. Dial 911 or go to the nearest ER for sudden symptoms

**Nearest Location:**

**Alpine Emergency**
Address:
100 Michigan St NE
Grand Rapids, MI 49503

Phone:
616-391-6220

Hours:
M-F: 8:00am - 8:00pm

Hold a spot in line
Android Application

SPECTRUM HEALTH
Spectrum Health offers a full continuum of care through Spectrum Health Hospital Group, Spectrum Health Medical Group and Priority Health.

Find more information at: http://www.spectrumhealth.org

Quick links
- Symptom Checker
- Locations
- Find a Doctor
- Contact Us

Social media
- Facebook
- Twitter
- Instagram
- Pinterest

TEAM <Company Name> Beta Presentation
Android Application

Symptom Checker

My ankle is swollen

Here are some relevant conditions:

Joint Sprain
Based on your keywords of:
ankle

Recommended Service

Joint Sprain
Synonyms: sprain

Recommended Service:

Urgent Care
Available on a walk-in, no appointment necessary basis. Or, hold a place in line and we’ll even text you when it’s time to show up.

Nearest Location:

Alpine Urgent Care
Address
2332 Alpine Ave NW
Grand Rapids, MI 49544

Phone
616-391-6220

Hours of Operation
08:00 am - 08:00 pm

HOLD MY SPOT IN LINE
Admin Portal – View Conditions

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

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Admin Portal – Add/Edit Condition

Edit Condition

Name
Allergies

Service
MedNow

Synonyms
- hay fever
- aversion
- hypersensitivity
- sensitivity
- susceptibility
- vulnerability
- allergic reaction

Save
Back to List

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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?