



Briana Figueroa



Swapnil Kadekar



Morgan Franklin



Alan Singleton



Sayema Islam



Jasmine Washington

# Sym✓

## Sprint 7 Presentation

### Team 5

# Agenda



## Sprint 6 Recap

- Completed Tasks and Stories
- Deliverables



## Sprint 7

- Statistics
- Committed and Completed Artifacts with Acceptance Criteria
- Test Cases
- Burndown Chart
- Deliverables



## Project Timeline

- Sprint 8 Backlog



## Retrospective



## Conclusion



## Project Demo

- New SymCheck design

# Sprint 6 Recap

# Sprint 6 Completed Tasks and Stories

ID	Type	Summary	Status	Story Points
HID-81	User Story	As a patient, I want to access a FAQ page so that I can see answers to common questions that I may have	Done	1
HID-70	Technical Task	Create a presentation for Sprint 6	Done	N/A
HID-75	Technical Task	Update installation guide and user manual	Done	N/A
HID-76	Technical Task	Update Technical Paper	Done	N/A
HID-77	Technical Task	Update Github Wiki	Done	N/A
HID-84	Technical Task	Find 200 images of ringworm	Done	N/A
HID-85	Technical Task	Create Mock-ups for new SymCheck Design	Done	N/A
HID-59	User Story	As a patient, I want to include other symptoms along with my image upload so that I can receive a better diagnosis of my illness	Moved to Sprint 7	5
HID-73	Technical Task	Develop a python script to clear media folder OR implement a database for uploaded pictures	Moved to Sprint 8	N/A

- ❖ We created an FAQ page and designed wireframes for our new SymCheck design
- ❖ We found 200 images of ringworm to train our machine learning algorithm
- ❖ We moved our advance prediction user story to Sprint 7
- ❖ We moved the development of a script or database to clear uploaded images to Sprint 8
- ❖ We completed 78% of our committed artifacts

# Sprint 6 Deliverable: FAQ Page

Top of Page

The screenshot shows the top half of a web page titled "SYM✓". At the top right are "Home" and "New Diagnosis" buttons. Below the title is a section titled "Frequently Asked Questions (FAQ)". It contains three questions and answers:

- Q.** What diseases does SymCheck diagnose?  
**A.** At this current stage in SymCheck's development, the SymCheck can detect chickenpox and pinkeye through photo recognition, but is looking to expand this in the future.
- Q.** How does my advanced diagnosis question responses attribute to my confidence level?  
**A.** By answering the questions on our advanced diagnosis page, your confidence level could either increase or decrease depending on your response, to give a more accurate diagnosis.
- Q.** What is the best way to reach the developers?  
**A.** If you would like to leave feedback, comments or concerns you can email our team at [symcheckapp@gmail.com](mailto:symcheckapp@gmail.com). You can find the link to email us at the bottom of the page.

Bottom of Page

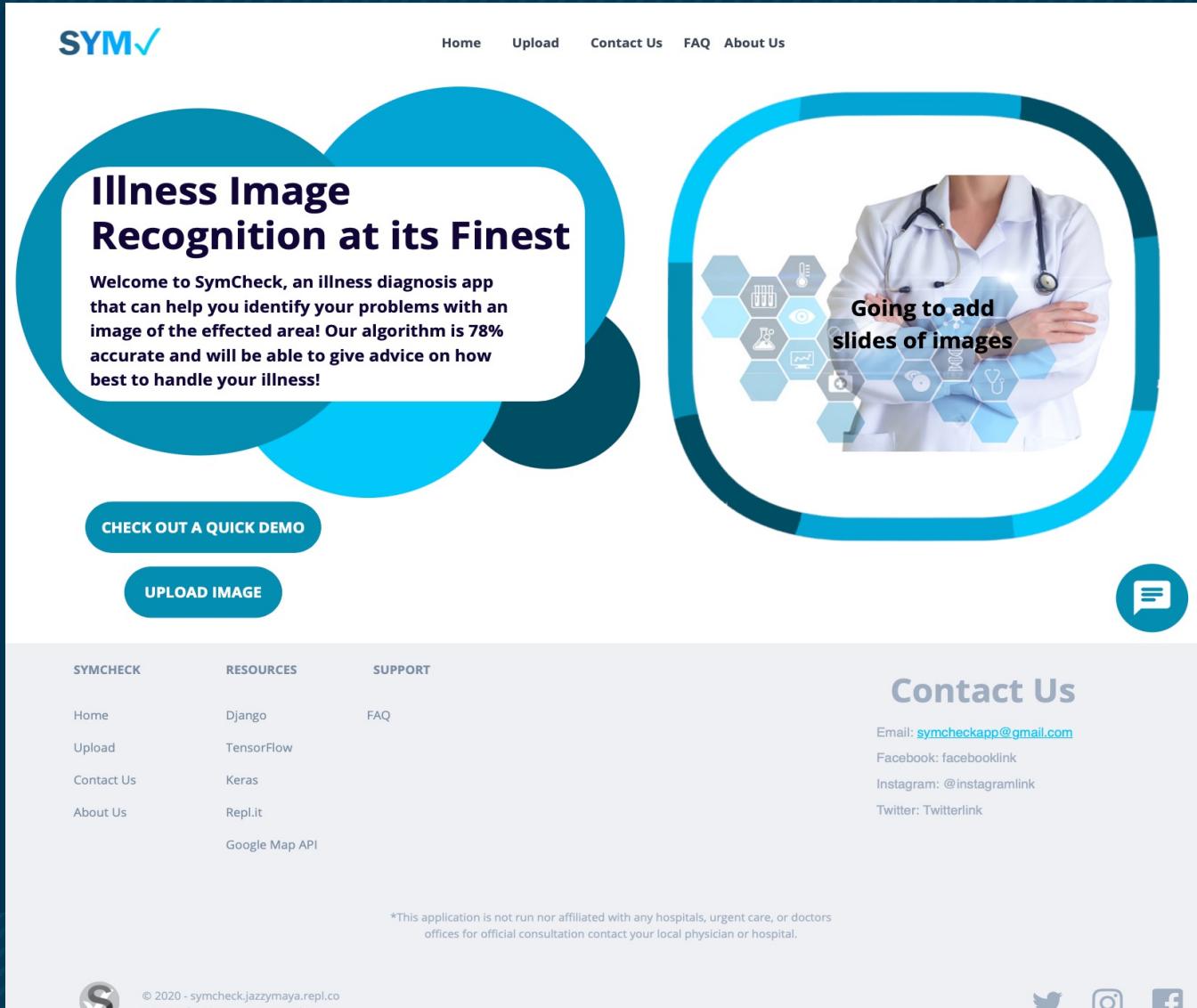
The screenshot shows the bottom half of the same web page. It features a sidebar with several white syringes on a blue background. The main content area includes a "Feedback" section with a "Find Nearest Emergency Room" button and a "Feedback" button. A "Feedback" modal window is open, showing a message "Good day! What can I do for you today?" and a close button. The footer contains the text "HiddenAgility" and the number "5".

**Q.** What is the best way to reach the developers?  
**A.** If you would like to leave feedback, comments or concerns you can email our team at [symcheckapp@gmail.com](mailto:symcheckapp@gmail.com). You can find the link to email us at the bottom of the page.

**Q.** What is the best photo format to upload?  
**A.** When uploading your photo, be sure that it is saved as JPG or PNG. For best results, capture the area of concern as closely and clearly as possible. Do not add filters or edit the photo.

**Q.** How does SymCheck diagnose diseases?  
**A.** SymCheck uses a trained machine learning-based model to classify your uploaded image. This model is currently 78% accurate and does not use any trained professional knowledge.

# Sprint 6 Deliverable: New SymCheck Design



The screenshot shows the homepage of the SymCheck app. At the top, there's a navigation bar with links for Home, Upload, Contact Us, FAQ, and About Us. The main visual features two large, overlapping circles: a light blue one on the left containing the text "Illness Image Recognition at its Finest" and a dark blue one on the right containing a doctor's image with the text "Going to add slides of images". Below these are two buttons: "CHECK OUT A QUICK DEMO" and "UPLOAD IMAGE". At the bottom, there are sections for "SYMCHECK", "RESOURCES", and "SUPPORT", each with a list of links. To the right, there's a "Contact Us" section with email and social media links, and a note about the application's purpose. The footer includes a copyright notice and links to Terms of Service and Privacy Policy.

SYM✓

Home Upload Contact Us FAQ About Us

Illness Image Recognition at its Finest

Welcome to SymCheck, an illness diagnosis app that can help you identify your problems with an image of the effected area! Our algorithm is 78% accurate and will be able to give advice on how best to handle your illness!

CHECK OUT A QUICK DEMO

UPLOAD IMAGE

SYMCHECK

- Home
- Upload
- Contact Us
- About Us

RESOURCES

- Django
- TensorFlow
- Keras
- Repl.it
- Google Map API

SUPPORT

- FAQ

Contact Us

Email: [symcheckapp@gmail.com](mailto:symcheckapp@gmail.com)  
Facebook: [facebooklink](#)  
Instagram: [@instagramlink](#)  
Twitter: [Twitterlink](#)

\*This application is not run nor affiliated with any hospitals, urgent care, or doctors offices for official consultation contact your local physician or hospital.

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Terms of Service Privacy Policy

Homepage

# Sprint 7

# Sprint 7 Statistics

Velocity  
= 10

# of User Stories  
= 4  
• HID-59 Was pushed into this Sprint due to technical difficulties in Sprint 6

# of Technical tasks = 4

Artifacts Completed =  
100%

ID	Type	Summary	Status	Story Points
HID-59	User Story	As a patient, I want to include other symptoms along with my image upload so that I can receive a better diagnosis of my illness.	Done	5
HID-79	User Story	As a patient, I want to know which illnesses SymCheck can diagnose so that I know what I can upload.	Done	1
HID-82	User Story	As a patient, I want to access other pages on the site with a navigation bar so that I can easily move from page to page	Done	3
HID-93	User Story	As a patient, I want to access an About Us page so that I can get to know more about the SymCheck creators	Done	1
HID-71	Technical Task	Create a presentation for Sprint 7	Done	N/A
HID-80	Technical Task	Add a disclaimer at the bottom of each page	Done	N/A
HID-83	Technical Task	Redo SymCheck's application design	Done	N/A
HID-94	Technical Task	Every member is required to log work done every weekday	Done	N/A

## Key for Priority

High

Medium

Low

# Committed and Completed Artifacts

## HID-59 User Story

Points: 5

- As a patient, I want to include other symptoms along with my image upload so that I can receive a better diagnosis of my illness.
- **Acceptance Criteria:** Given that the patient is on the upload page, when the patient submits an image, then the patient is redirected to an advance page where they can answer questions with “Yes” or “No” radio options.

## HID-82 User Story

Points: 3

- As a patient, I want to access other pages on the site with a navigation bar so that I can easily move from page to page.
- **Acceptance Criteria:** Given that the patient is on any page of SymCheck, when the patient clicks on “Home”, “Upload”, “FAQ”, or “About us”, then the patient will be redirected to the respective webpage.

## HID-93 User Story

Points: 1

- As a patient, I want to access an About Us page so that I can get to know more about the SymCheck creators.
- **Acceptance Criteria:** Given that the patient is on any page, when the patient clicks on the “About Us” link, then the patient will be redirected to the About Us page and can read about each team member and see their photo.

## HID-79 User Story

Points: 1

- As a patient, I want to know which illnesses SymCheck can diagnose so that I know what I can upload.
- **Acceptance Criteria:** Given that the patient is on the Homepage, when the user is reading the SymCheck info box, then the user.

## HID-94 Technical Task

- Every member is required to log work done every weekday.

## HID-83 Technical Task

- Redo SymCheck’s application design

## HID-80 Technical Task

- Add a disclaimer at the bottom of each page

## HID-71 Technical Task

- Create a presentation for Sprint 7

# Sprint 7 Test Cases

## Advance Prediction Page

ID	Test Case For	Test Case	Test Data	Expected Result	Actual Result	Pass/Fail
HID-59	Advance Prediction Page	Directed to Advance Prediction		Patient will be directed to Advance Prediction Page after submitting photo	After submitting a photo for analysis, the Advance Prediction Page will appear	Pass
HID-59	Advance Prediction Page	Chickenpox	chickenpox image file	Patient will be asked questions about chickenpox	After submitting a chickenpox photo, the questions on the Advance Prediction are based upon this illness.	Pass
HID-59	Advance Prediction Page	Pink Eye	pink eye image file	Patient will be asked questions about pink eye	After submitting a pink eye photo, the questions on the Advance Prediction are based upon this illness.	Pass
HID-59	Advance Prediction Page	Complete All Answers		Patient will have to complete all answers	When choosing to answer the advanced questions must answer all of them to submit and move on to the results. If you don't answer one question an alert will pop up to answer that question	Pass
HID-59	Advance Prediction Page	Submit Answers		Patient can submit answers to Advanced Questions	Once completing all questions, you can submit the answers to help further diagnosis your illness.	Pass
HID-59	Advance Prediction Page	Skip to Results		Patient can skip Advance Questions and go to Results Page	If someone doesn't want to answer the Advanced Page questions, then clicking the skip to results button will send them to the results page	Pass

# Sprint 7 Test Cases

## About Us Page

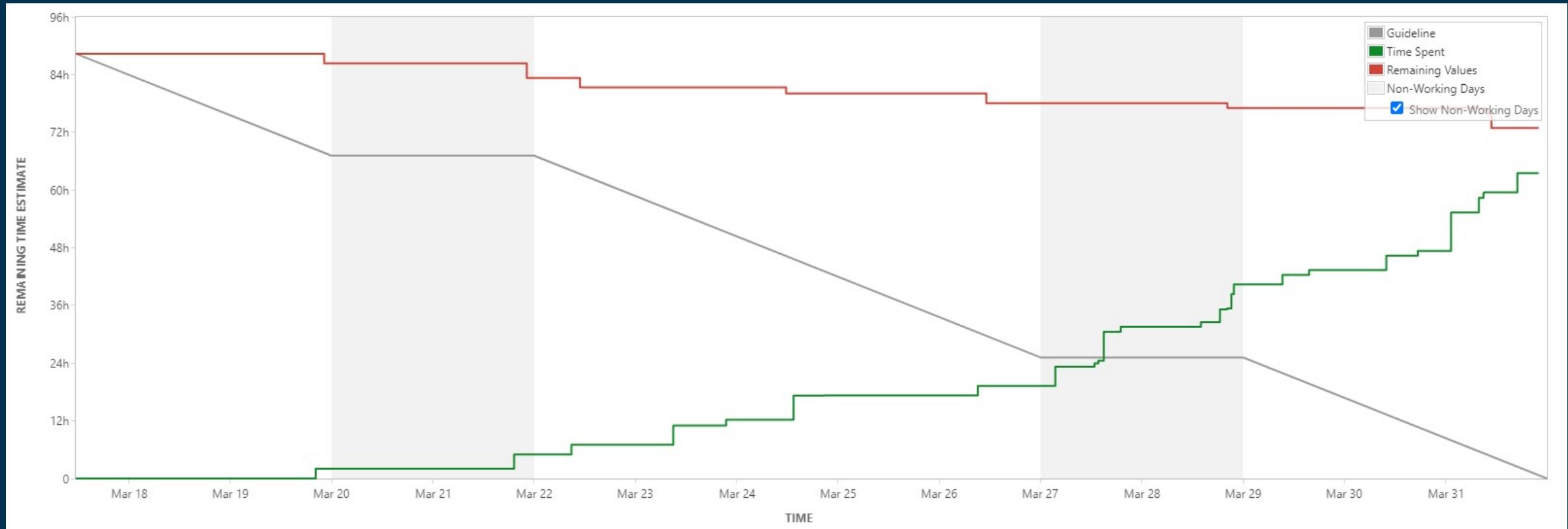
ID	Test Case For	Test Case	Test Data	Expected Result	Actual Result	Pass/Fail
HID-93	About Us	About Us	N/A	Patient can locate About Us page	In the NavBar you will find About Us, once selected you will be redirected to this page	Pass
HID-93	What is SymCheck	What is SYMCheck	N/A	Patient can see what SYMCheck Application does	Underneath the NavBar you will see a short description about what the application does	Pass
HID-93	Meet the Team	Meet the Team	N/A	Patient can see all of the team members who created SYMCheck	Below the What is SYMCheck section you will see Meet the Team. With a list of our team members with pictures and the description of our roles.	Pass
HID-93	Chatbot	Chatbot	How can I get in touch with developers?	Patient can interact with SymBot and receive a response	SymBot responds on all patient inputs such as hello, what is chickenpox, how can I speak to creators of symcheck, etc.	Pass

# Sprint 7 Test Cases Continued

ID	Test Case For	Test Case	Expected Result	Actual Result	Pass/Fail
HID-79	Homepage	Illness Diagnosed	Patient can see which illnesses SymCheck can check for	Patient can see what illnesses SymCheck can diagnose as well as its machine learning accuracy percentage	Pass
HID-80	All Pages	Disclaimer	Patient can see disclaimer in the footer	In the footer, there is a disclaimer saying we are not medical professionals	Pass
HID-80	All Pages	Footer Links	Patient can click on any links in footer and be redirected to respective pages	In the footer, all links under SymCheck, Resources, Support, and Contact Us take you to the correct page	Pass
HID-82	All Pages	Navigation Bar	Patient can move to all pages that does not rely on user input on site using Navigation bar	Patient can click any link in Navigation Bar and is redirected to the Home, Upload, FAQ, or About Us Page	Pass
HID-83	All Pages	Footer	Patient can access footer along all pages throughout the web application	On every page, the patient has access to the same footer elements	Pass

# Burndown Chart

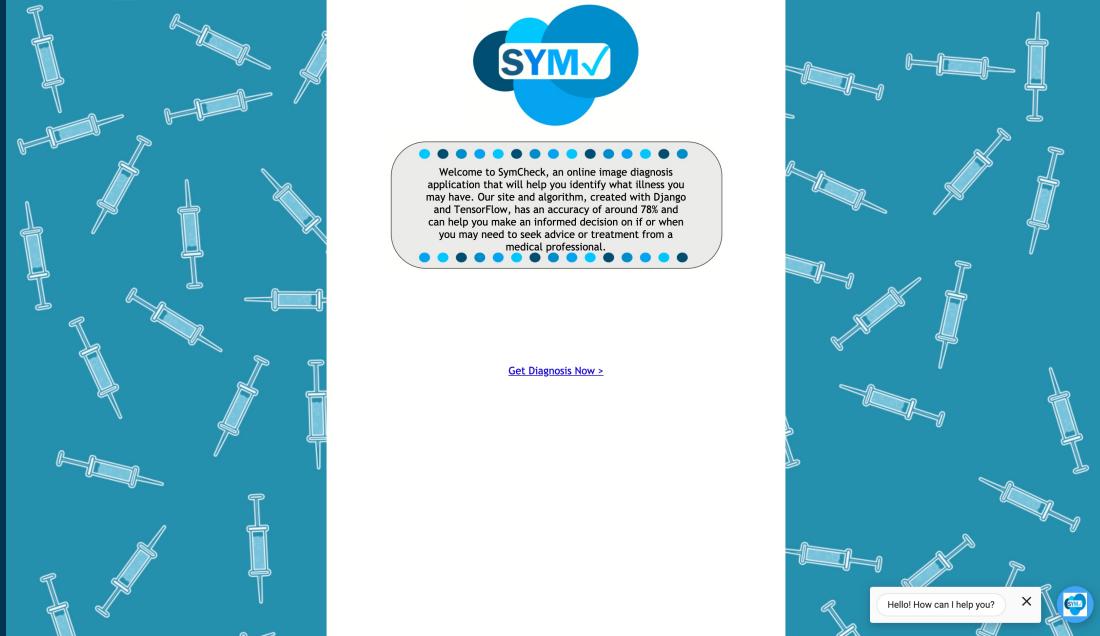
# Sprint 7 Burndown Chart



- ❖ We finished our work earlier than the time we estimated in our Sprint Planning Meeting
- ❖ The green shows how often we logged our work
- ❖ The red shows an error with Jira, it did not adjust the Remaining Time Estimate figure when we logged our work

# Sprint 7 Deliverables

# Redesigned SymCheck Home Page



# Before



A screenshot of the redesigned SymCheck home page. The layout is cleaner with a white background. The 'SYM✓' logo is at the top left. A large blue callout bubble in the center contains the headline 'Illness Image Recognition at its Finest' and a detailed welcome message. Below the bubble are 'CHECK OUT A QUICK DEMO' and 'UPLOAD IMAGES' buttons. At the bottom, there are three columns: 'SYMCHECK' (Home, Upload, FAQ, About Us), 'RESOURCES' (Django, Tensorflow, Keras, AWS, Google Map API), and 'SUPPORT' (FAQ). On the right side, there is a circular graphic showing a hand interacting with a digital interface displaying medical data. A 'Contact Us' sidebar on the far right lists social media links. A small 'Hello! How can I help you?' chat window is at the bottom right.

# After

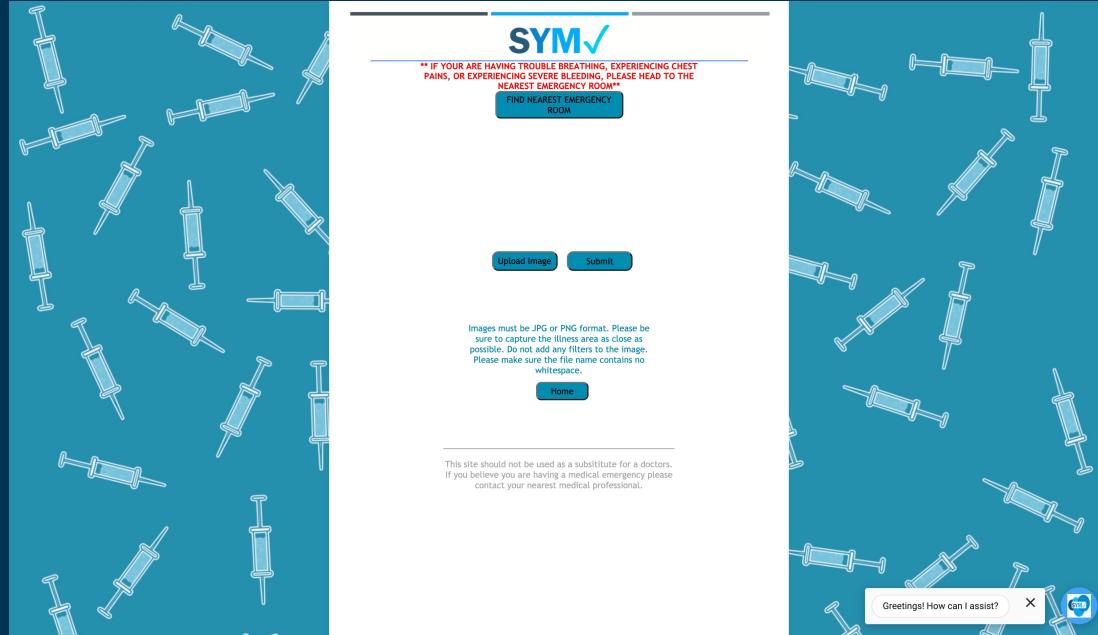
Contact Us  
Email: [symcheckapp@gmail.com](mailto:symcheckapp@gmail.com)  
Facebook: [SYMCheck](#)  
Instagram: [symcheck8080](#)  
Twitter: [twitter.com/CheckSym](#)

\*This application is not affiliated with any hospitals, urgent care, or any medical professional for official consultation. Contact your local physician or hospital.

Hello! How can I help you? X



# Redesigned SymCheck Upload Page



# Before

The redesigned upload page features a large, stylized blue and teal cloud graphic on the left side. The main content area has a white background with a dark teal header bar containing the 'SYM✓' logo. A red warning message at the top reads: '\*\* IF YOU ARE HAVING TROUBLE BREATHING HAVE CHEST PAINS, OR SEVERE BLEEDING, PLEASE HEAD TO THE NEAREST EMERGENCY ROOM\*\*'. Below this is a teal button labeled 'NEAREST EMERGENCY ROOM'. At the bottom of the page, there are two buttons: 'Upload Image' and 'Submit'. A note below the buttons specifies file format requirements: 'All images must be in JPG or PNG format. Please be sure your image captures the affected area as closely as possible, do not add any filters to the image, and make sure the file name contains no whitespaces.' A small 'Home' button is also present. A footer note states: 'This application is not yet affiliated with any hospitals, urgent care, or any medical professional for official consultation. Contact your local physician or hospital.' A small 'Greetings! How can I assist?' chat window is visible in the bottom right corner. The footer includes links for 'SYMCHECK', 'RESOURCES', and 'SUPPORT', along with social media icons for Facebook, Instagram, and Twitter.

# After

# New SymCheck Advanced Prediction Page - Chickenpox

**SYM✓**

Home Upload FAQ About Us

**\*\*IF YOU ARE HAVING TROUBLE BREATHING HAVE CHEST PAINS, OR SEVERE BLEEDING,  
PLEASE HEAD TO THE NEAREST EMERGENCY ROOM\*\***

**NEAREST  
EMERGENCY ROOM**

**SKIP TO RESULTS**

1. Have you had chickenpox in the past?  
 Yes     No

2. If you had chickenpox in the past, were you less than 6 months old?  
 Yes     No

3. Do you have a fever?(Above 98.6 F or 37 C)  
 Yes     No

4. Are you experiencing any irritation in the affected area?(Burning, itching or tightness)  
 Yes     No

**SUBMIT**

**SYMCHECK**    **RESOURCES**    **SUPPORT**

Home    Django    FAQ  
Upload    Tensorflow  
FAQ    Keras  
About Us    AWS  
Google Map API

**Contact Us**

Email: [symcheckapp@gmail.com](mailto:symcheckapp@gmail.com)  
FaceBook: [SYMCheck](#)  
Instagram: [symcheck8080](#)  
Twitter: [twitter.com/CheckSym](#)

\*This application is not run nor affiliated with any hospitals, urgent care, or any medical professional. For official consultation contact your local physician or hospital.

Good day! What can I do for you today?

# New SymCheck Advanced Prediction Page - Pinkeye

**SYM✓**

Home Upload FAQ About Us

**\*\*IF YOU ARE HAVING TROUBLE BREATHING HAVE CHEST PAINS, OR SEVERE BLEEDING,  
PLEASE HEAD TO THE NEAREST EMERGENCY ROOM\*\***

**NEAREST  
EMERGENCY ROOM**

**SKIP TO RESULTS**

1. Do your eyes feel itchy?  
 Yes     No

2. Is there a gritty feeling in your eyes?  
 Yes     No

3. Do one or both eyes form a crust during the night that may prevent your eyes from opening in the morning?  
 Yes     No

4. Have you experienced any tearing from your eyes?  
 Yes     No

**SUBMIT**

**SYMCHECK**    **RESOURCES**    **SUPPORT**

Home    Django    FAQ  
Upload    Tensorflow  
FAQ    Keras  
About Us    AWS  
Google Map API

**Contact Us**

Email: [symcheckapp@gmail.com](mailto:symcheckapp@gmail.com)  
FaceBook: [SYMCheck](#)  
Instagram: [symcheck8080](#)  
Twitter: [twitter.com/CheckSym](#)

\*This application is not run nor affiliated with any hospitals, urgent care, or any medical professional. For official consultation contact your local physician or hospital.

Good day! What can I do for you today?

# Redesigned SymCheck Results Page

The screenshot shows the original SymCheck results page. At the top right is the SYM✓ logo. Below it are two buttons: "Home" and "New Diagnosis". The main content area has a heading "Results" with a sub-section titled "Based on the submission provided, your image indicates that you may have Chickenpox with a confidence of 100.00.". Below this is an "About" section with detailed information about chickenpox. There's also a "When to see a Doctor" section with specific criteria for seeking medical attention. A "Nearby Healthcare Facilities" section provides a button to find nearest emergency rooms. At the bottom is a "Feedback" section with a "FIND NEAREST EMERGENCY ROOM" button. A small "Feedback" form is visible at the bottom right. The background features a pattern of white syringes on a teal background.

# Before



SYM✓

# After

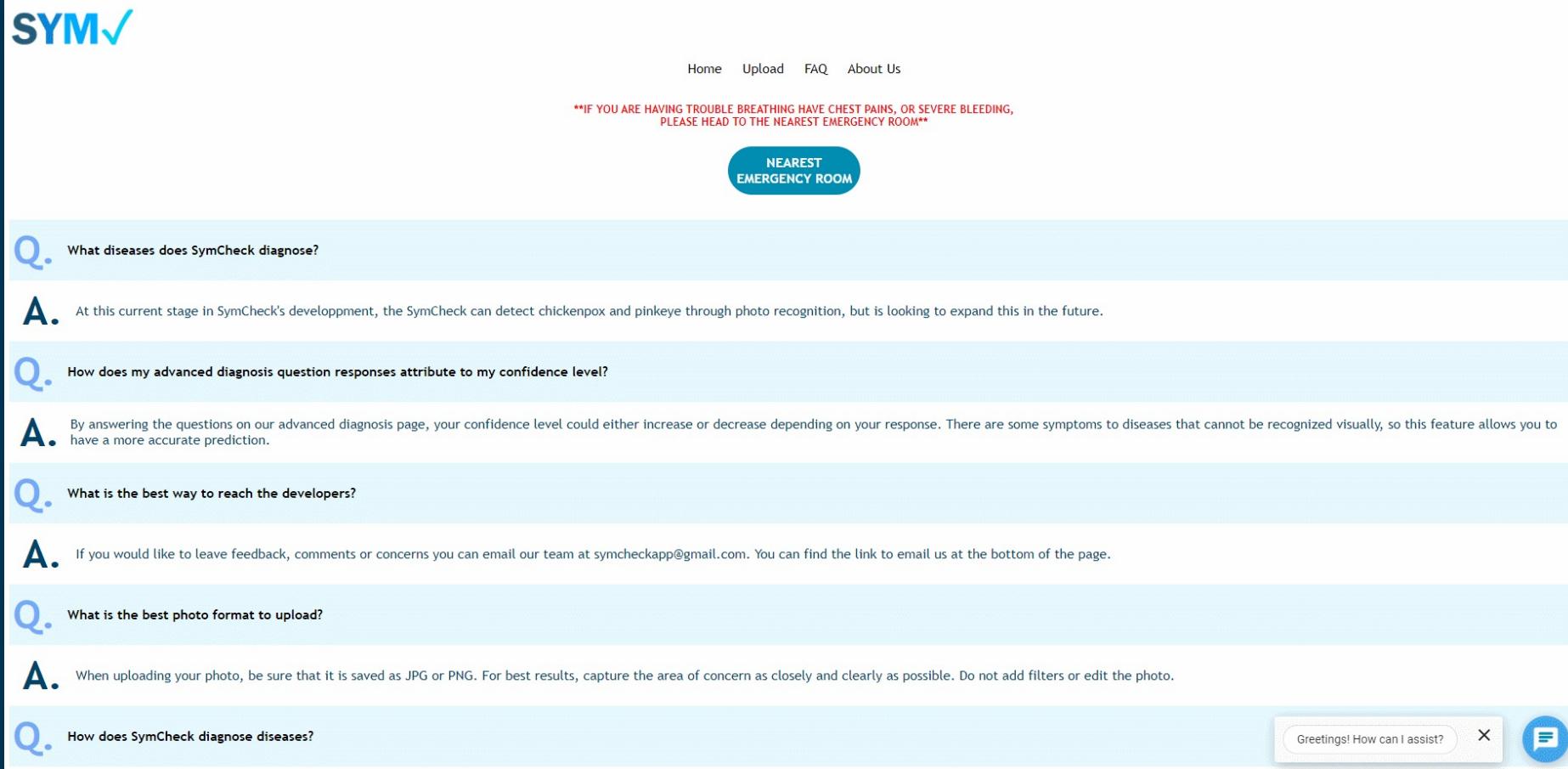
The screenshot shows the redesigned SymCheck results page. At the top right is the SYM✓ logo. Below it are three buttons: "Home", "Upload", and "FAQ". There's also a "About Us" link. A red banner at the top right reads: "IF YOU ARE HAVING TROUBLE BREATHING HAVE CHEST PAINS, OR SEVERE BLEEDING, PLEASE HEAD TO THE NEAREST EMERGENCY ROOM\*\*". A blue button labeled "NEAREST EMERGENCY ROOM" is present. The main content area has a heading "Results" with a sub-section titled "Based on the submission provided, your image indicates that you may have Normal Skin with a confidence of 82.44.". Below this is an "About" section with the text: "Algorithm concluded that no visual injury or illness is found on the skin visible in the image." There's also a "When to See a Doctor" section with the text: "As stated above, it appears that the skin is normal. However, if you are experiencing any of the following symptoms you may wish to seek help from a medical professional: Burning/itching sensation, Numbness, Acute Pain with or without stimuli." At the bottom left is a "Feedback" section with links to "SYMCHECK", "RESOURCES", and "SUPPORT". The "SYMCHECK" section includes links to "Home", "Upload", "FAQ", "About Us", and "Google Map API". The "RESOURCES" section includes links to "Django", "Tensorflow", "Keras", "AWS", and "Google Map API". The "SUPPORT" section includes links to "FAQ" and "Contact Us". The "Contact Us" section lists email, Facebook, Instagram, and Twitter handles. A small "Feedback" form is visible at the bottom right. The background features a pattern of white syringes on a teal background.

Contact Us  
Email: [symcheckapp@gmail.com](mailto:symcheckapp@gmail.com)  
Facebook: [SymCheck](#)  
Instagram: [symcheck82080](#)  
Twitter: [twitter.com/CheckSym](#)

Greetings! How can I assist?



# New SymCheck FAQ Page



The screenshot shows the SymCheck FAQ page. At the top left is the SymCheck logo (SYM✓). At the top right are navigation links: Home, Upload, FAQ, and About Us. Below these is a safety message: "IF YOU ARE HAVING TROUBLE BREATHING HAVE CHEST PAINS, OR SEVERE BLEEDING, PLEASE HEAD TO THE NEAREST EMERGENCY ROOM". A blue button labeled "NEAREST EMERGENCY ROOM" is present. The page contains several Q&A pairs:

- Q.** What diseases does SymCheck diagnose?  
**A.** At this current stage in SymCheck's development, the SymCheck can detect chickenpox and pinkeye through photo recognition, but is looking to expand this in the future.
- Q.** How does my advanced diagnosis question responses attribute to my confidence level?  
**A.** By answering the questions on our advanced diagnosis page, your confidence level could either increase or decrease depending on your response. There are some symptoms to diseases that cannot be recognized visually, so this feature allows you to have a more accurate prediction.
- Q.** What is the best way to reach the developers?  
**A.** If you would like to leave feedback, comments or concerns you can email our team at [symcheckapp@gmail.com](mailto:symcheckapp@gmail.com). You can find the link to email us at the bottom of the page.
- Q.** What is the best photo format to upload?  
**A.** When uploading your photo, be sure that it is saved as JPG or PNG. For best results, capture the area of concern as closely and clearly as possible. Do not add filters or edit the photo.
- Q.** How does SymCheck diagnose diseases?

In the bottom right corner, there is a live chat interface with a message bubble containing "Greetings! How can I assist?" and a close button (X), and a blue icon with a speech mark.

# New SymCheck About Us Page



Home   Upload   FAQ   About Us

### What is SYMCheck?

Welcome! SYMCheck is an online image diagnosis application that will help you identify what illness you may have. Our site, which has been implemented with our algorithm made with Django and tensorflow, has an accuracy of over 78% and can help you make an informed decision on if or when you may need a medical professional.

### MEET THE TEAM!



**Morgan Franklin: Cloud Engineer**  
Morgan as our Cloud Engineer ensured that our collaborative work space was up and running along with our public site. She has also done an amazing job with technical documentation concerning the application.



**Jasmine Washington: Scrum Master/Project Manager**  
Jasmine as both our Project Manager and Scrum master kept everyone on task, checked in on all of us daily, and even assisted others with their work load. She has amazing leadership skills that would put anyone to shame!



**Sayema Islam: Product owner/Developer**  
Sayema Islam as our product owner came up with this brilliant idea that would help out many people during this crisis in an effort to minimize exposure! She has also been organizing any code and writing all technical documents.

Good day! What can I do for you today? X 

# Project Timeline

# Sprint 8 (April 6 - April 27)

ID	Type	Summary	Priority	Status	Story Points
HID-62	User Story	As a patient, I want to access the SymCheck application on the web so that I don't have to download and run an instance myself	High	In Progress	8
HID-64	User Story	As a patient, I want to access SymCheck on my mobile device for convenience	High	To Do	5
HID-73	Technical Task	Develop a python script to clear media folder OR implement a database for uploaded pictures	High	To Do	N/A
HID-78	Technical Task	Add ringworm as another illness that can be predicted	High	To Do	N/A
HID-88	Technical Task	Set up AWS environment for development and production	High	In Progress	N/A
HID-95	User Story	As a patient, I want to be able to easily understand my illness is so that I know how serious it is	Medium	To Do	3
HID-96	Technical Task	Optimize SymCheck code	Medium	To Do	N/A
HID-72	Technical Task	Create a presentation for Sprint 8	Low	To Do	N/A

# Retrospectives

# Retrospectives

## What went well

Logging work  
more  
consistently

Coding in a  
cloud  
collaborative  
environment

Meaningful tri-  
weekly  
meetings

## What needs improvement

1

Identifying  
bugs before  
marking  
stories “done”

2

Communicating  
new feature  
ideas  
effectively

3

Coding initially  
with  
optimization in  
mind

## Next Steps

Coding initially  
with  
optimization in  
mind

# Conclusion

## *Link to GitHub*

<https://github.com/jazzymaya/HiddenAgility/wiki>

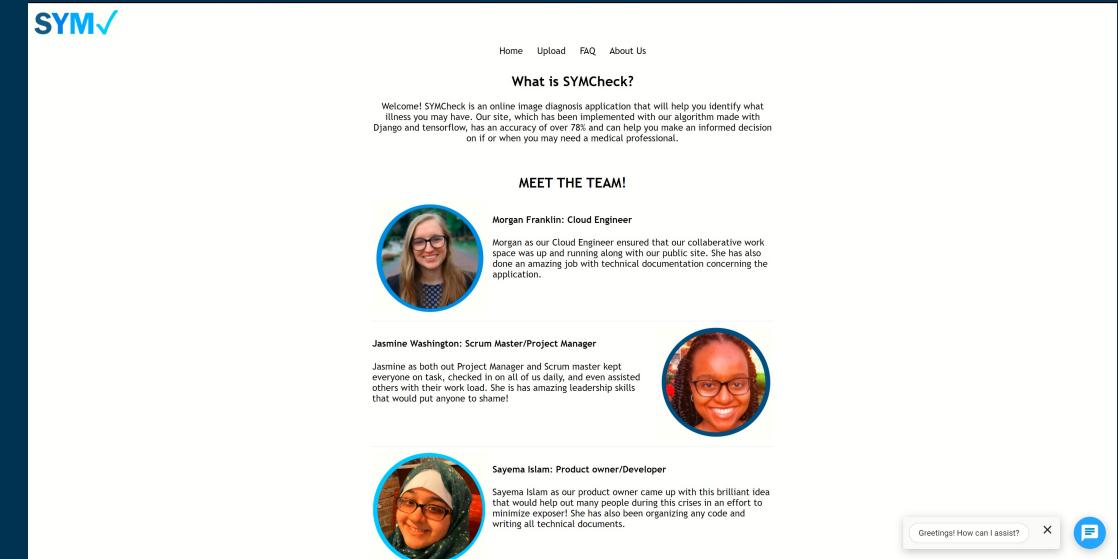
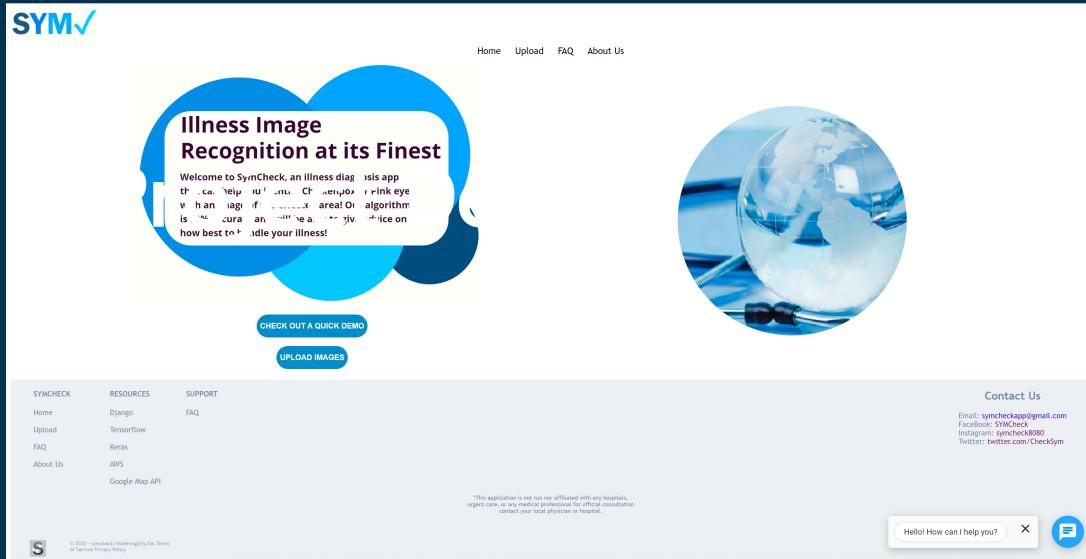
The screenshot shows the GitHub Wiki page for the repository `jazzymaya/HiddenAgility`. The page title is "Home". The main content area contains the following sections:

- SymCheck - Pace University Capstone Project**: A brief description of the project, stating it is a self-diagnosing, symptom-checking application based on a Machine Learning algorithm.
- Project Description**: A detailed description of the SymCheck application.
- Team Members**: A grid of six team member profiles, showing their names and email addresses:
  - Jasmine Washington ([jasmine.m.washington@pace.edu](mailto:jasmine.m.washington@pace.edu))
  - Sayema Islam ([sayema.islam@pace.edu](mailto:sayema.islam@pace.edu))
  - Alan Singleton ([alan.w.singleton@pace.edu](mailto:alan.w.singleton@pace.edu))
  - [Placeholder profile]
  - [Placeholder profile]
  - [Placeholder profile]

On the right side of the page, there are sidebar options for "Pages" (with 1 item), "Edit", "New Page", "Unwatch", "Star", "Fork", and "Clone this wiki locally".

# Project Demo

# Project Demo Screenshots



Live Demo was performed by Briana Figueroa.  
Please watch our Deliverable 7 Presentation on  
our GitHub Wiki Page!