

SymCheck

Sprint 6 Presentation

Team 5

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Agenda



Project Recap

- What is SymCheck
- Technologies being used



Sprint 5 Recap

- Completed Tasks and Stories
- Screenshot of new features



Sprint 6

- Committed, Completed, and Uncompleted Tasks and Stories
- Burndown Chart
- Deliverables
- Acceptance Criteria
- Test Case



Project Timeline

- Sprint 7 and 8 Backlog



Retrospective



Conclusion

Project Recap

What is SYM✓?

- An image-based, self-diagnosis web application
- A patient's uploaded image analyzed by an original algorithm
 - This algorithm is developed, tested, and ran using TensorFlow's Keras library
- SymCheck diagnoses 2 illnesses: chickenpox (varicella) and pink eye (conjunctivitis)
- The use of SymCheck could thus also help in mediating the spread of COVID-19 by reducing the traffic in Urgent Care facilities.
- Does not require account creation or login, nor answering a long series of monotonous questions (image-based)

Technologies used in SymCheck

 Frontend	 Web Framework	 Backend
 Google Maps Integrated Map API		 Dialogflow AI-based Chatbot
 TensorFlow Machine Learning Library	?	 Keras Machine Learning API

Sprint 5 Recap

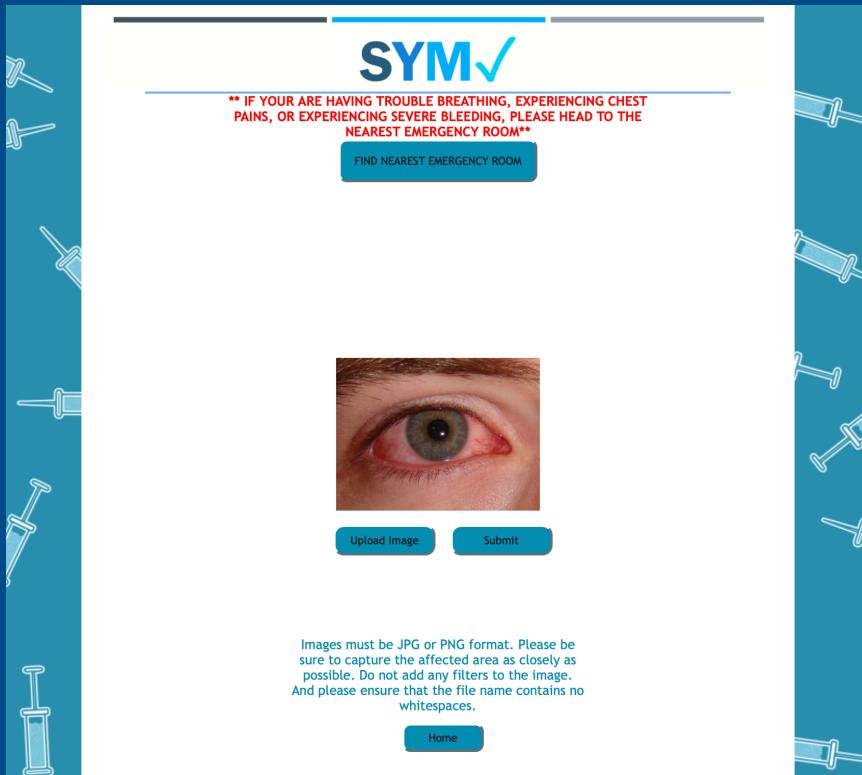
Sprint 5 Deliverables

T	Key	Summary	Story Points	Labels	P ↓
	HID-62	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	8	CloudAccess	↑ ...
	HID-58	As a patient, I want to interact with the SymCheck Chat Bot so that I could have my questions answered quickly	5	AllPages	↑
<input checked="" type="checkbox"/>	HID-56	Find more images of Chickenpox, PinkEye, Normal skin and Normal eye for the ML algorithm		None	↑
	HID-57	As a patient, I want to see the image I uploaded so that I know I chose the intended file	1	ImageUploadPage	↑
<input checked="" type="checkbox"/>	HID-74	Find a coding collaboration tool for easier integration and editing of SymCheck		None	↑
<input checked="" type="checkbox"/>	HID-65	Create questions for textual diagnosis and weight priority		None	↑
<input checked="" type="checkbox"/>	HID-63	Enhance the SymCheck application by cleaning up code		None	↑
<input checked="" type="checkbox"/>	HID-61	Redo all stories, test cases, and acceptance criteria's to reflect proper type of user and verbiage		None	↓
<input checked="" type="checkbox"/>	HID-60	Link all user stories, test cases, and acceptance criteria together		None	↓
<input checked="" type="checkbox"/>	HID-66	Create a presentation for Sprint 5		None	↓
	HID-68	Create a presentation for Sprint 6		None	↑

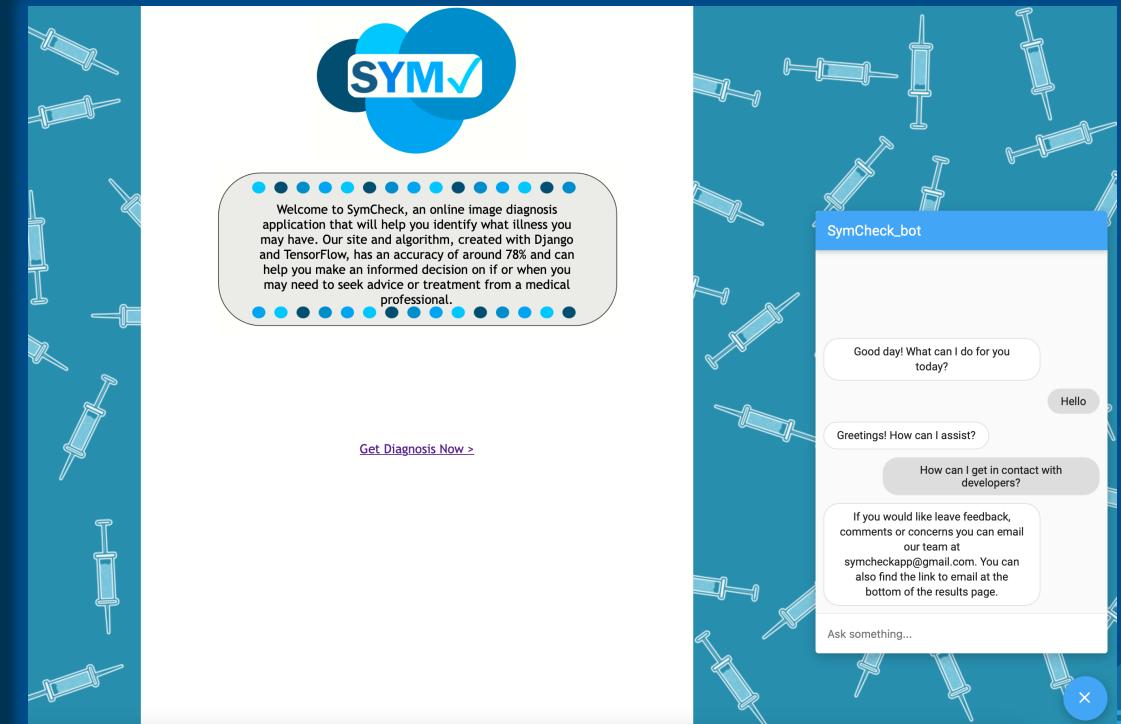
- We added a new capability that allows you to see the image uploaded for confirmation purposes.
- We added a chatbot to each page that acts as a virtual assistant for SymCheck.
 - It can direct users to various resources such as our GitHub, the CDC website, or reach us via email
- We hosted our application to the cloud for easier accessibility.
 - Users can access SymCheck on any laptop or desktop
 - There is no need to install and run SymCheck on your device

Sprint 5 Screenshots

New Image Page Capability



Chatbot Capability



Sprint 6

Sprint 6 Committed Tasks and Stories

T	Key	Summary	Story Points	P
<input checked="" type="checkbox"/>	HID-59	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	5	↑
<input checked="" type="checkbox"/>	HID-84	Find 200 images of ringworm		↑
<input checked="" type="checkbox"/>	HID-73	Develop a python script to clear media folder OR implement a database for uploaded pictures		↑
<input checked="" type="checkbox"/>	HID-86	HID-81 / Come up with FAQ		↑
<input checked="" type="checkbox"/>	HID-85	Create Mock-ups for new SymCheck Design		↑
<input checked="" type="checkbox"/>	HID-81	As a patient, I want to access a FAQ page so that I can see answers to common questions that I may have	1	↓
<input checked="" type="checkbox"/>	HID-77	Update GitHub wiki		↓
<input checked="" type="checkbox"/>	HID-76	Update Technical Paper		↓
<input checked="" type="checkbox"/>	HID-75	Update installation guide and user manual		↓
<input checked="" type="checkbox"/>	HID-70	Create a presentation for Sprint 6		↓

Metrics

- 2 User Stories
 - 6 Story Points
- 7 Tasks
- 1 Subtask

10 Items Total

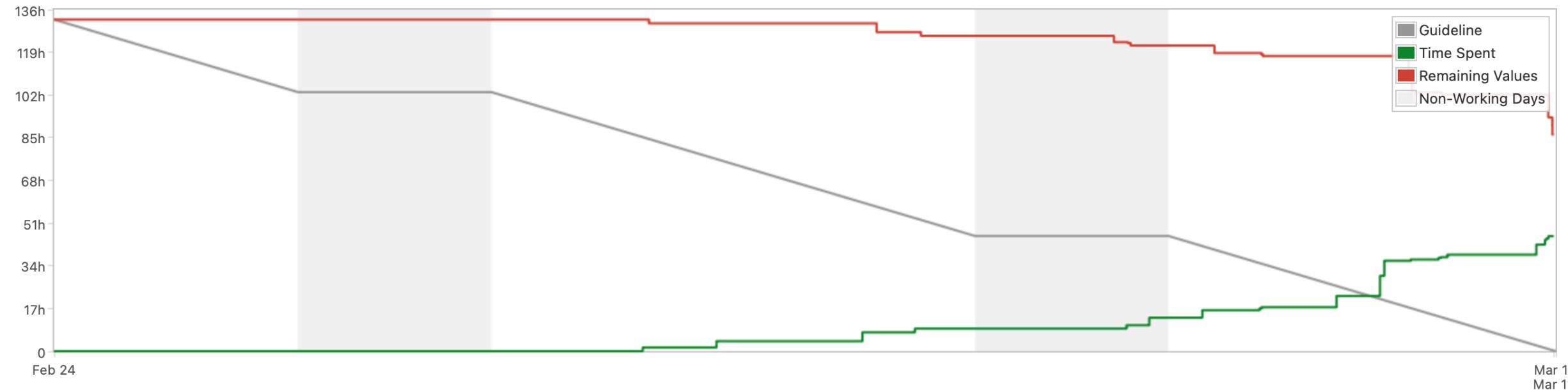
Sprint 6 Completed Tasks and Stories

T	Key	Summary	Story Points	P	...
<input checked="" type="checkbox"/>	HID-84	Find 200 images of ringworm		↑	...
<input checked="" type="checkbox"/>	HID-85	Create Mock-ups for new SymCheck Design		↑	...
<input checked="" type="checkbox"/>	HID-81	As a patient, I want to access a FAQ page so that I can see answers to common questions that I may have	1	↓	...
<input checked="" type="checkbox"/>	HID-77	Update GitHub wiki		↓	...
<input checked="" type="checkbox"/>	HID-76	Update Technical Paper		↓	...
<input checked="" type="checkbox"/>	HID-75	Update installation guide and user manual		↓	...
<input checked="" type="checkbox"/>	HID-70	Create a presentation for Sprint 6		↓	...

Sprint 6 Uncompleted Tasks and Stories

Key	Summary	Issue Type	Priority	Status	Story Points (5)
HID-59	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	 Story	 Highest	IN PROGRESS	5
HID-73	Develop a python script to clear media folder OR implement a database for uploaded pictures	 Task	 High	IN PROGRESS	-

Sprint 6 Burndown Chart



- ❖ This chart shows our time estimate burndown.

Sprint 6 Deliverables

Sprint 6 Deliverable: FAQ Page

Top of Page

The screenshot shows the 'Frequently Asked Questions (FAQ)' section of the SymCheck app. At the top, there's a navigation bar with 'Home' and 'New Diagnosis' buttons. The main content area has 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. You can find the link to email us at the bottom of the page.

Bottom of Page

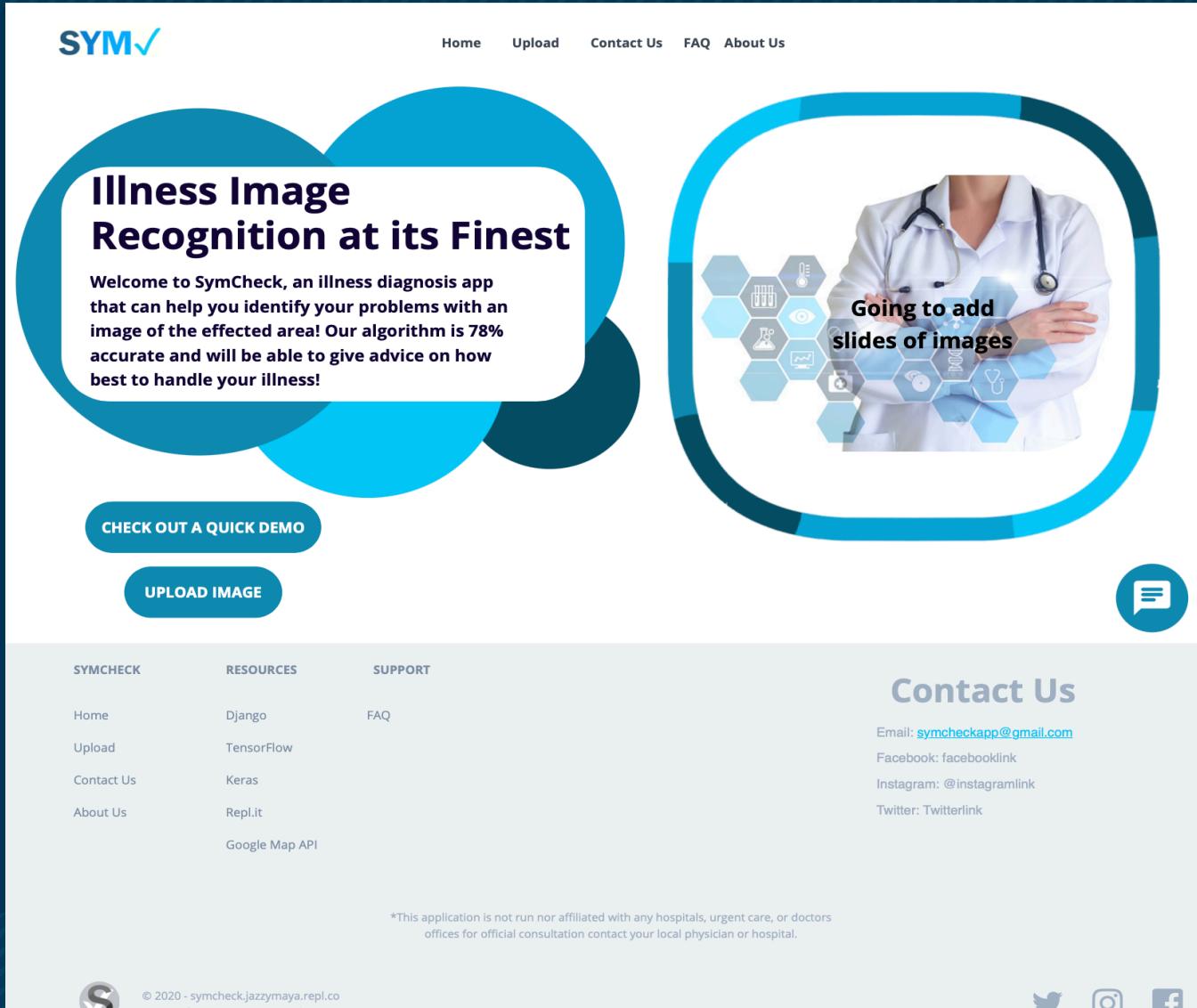
The screenshot shows the bottom section of the FAQ page. It includes three questions and answers, a 'Feedback' button, and a chatbot interface.

- 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. 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.

Feedback
Contact us [Here](#) for any questions or comments for our team

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

Sprint 6 Deliverable: New SymCheck Design



The screenshot shows the homepage of the SymCheck app. At the top left is the logo "SYM✓". At the top right are navigation links: Home, Upload, Contact Us, FAQ, and About Us. The main content area features two large circular sections. The left section, titled "Illness Image Recognition at its Finest", contains a welcome message about the app's purpose and accuracy, along with a "CHECK OUT A QUICK DEMO" button and an "UPLOAD IMAGE" button. The right section shows a doctor in a white coat with a stethoscope, overlaid with the text "Going to add slides of images" and surrounded by medical icons. At the bottom, there are three columns: SYMCHECK (Home, Upload, Contact Us, About Us), RESOURCES (Django, TensorFlow, Keras, Repl.it, Google Map API), and SUPPORT (FAQ). On the right side, there is a "Contact Us" section with email and social media links, and a note at the bottom stating: "*This application is not run nor affiliated with any hospitals, urgent care, or doctors offices for official consultation contact your local physician or hospital." The footer includes the HiddenAgility logo, copyright information, and social media links.

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
Facebook: [facebooklink](#)
Instagram: [@instagramlink](#)
Twitter: [Twitterlink](#)

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Homepage

Sprint 6 Deliverable: New SymCheck Design

The screenshot shows the SymCheck application's upload interface. At the top left is the SYM✓ logo. A navigation bar with links to Home, Upload, Contact Us, FAQ, and About Us is positioned at the top right. Below the navigation, a red warning message reads: "IF YOUR 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 located above a large, light-gray rectangular input field for uploaded images. Inside this input field, there are two gray placeholder icons: a triangle and a circle. Below the input field are two blue buttons: "UPLOAD IMAGE" on the left and "SUBMIT" on the right. To the right of the "SUBMIT" button is a blue circular icon containing a white speech bubble symbol. At the bottom of the page, there are three columns: "SYMCHECK", "RESOURCES", and "SUPPORT". The "SYMCHECK" column lists Home, Upload, Contact Us, and About Us. The "RESOURCES" column lists Django, TensorFlow, Keras, Repl.it, and Google Map API. The "SUPPORT" column lists FAQ. On the right side, under the heading "Contact Us", are links for Email (symcheckapp@gmail.com), Facebook (facebooklink), Instagram (@instagramlink), and Twitter (Twitterlink). A note at the bottom states: "This application is not run nor affiliated with any hospitals, urgent care, or doctors offices for official consultation contact your local physician or hospital." The footer includes the HiddenAgility logo, copyright information (© 2020 - symcheck.jazzymaya.repl.co), and links to Terms of Service and Privacy Policy. Social media icons for Twitter, Instagram, and Facebook are also present.

SYM✓

Home Upload Contact Us FAQ About Us

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

NEAREST EMERGENCY ROOM

Images must be JPG or PNG format. Please be sure to capture the illness area as close as possible. Do not add any filters to the image. Please make sure the file name contains no whitespaces.

UPLOAD IMAGE

SUBMIT

SYMCHECK

RESOURCES

SUPPORT

Contact Us

Upload Page

HiddenAgility

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Sprint 6 Deliverable: New SymCheck Design

The screenshot shows the SymCheck application's user interface. At the top left is the logo 'SYM✓'. At the top right are links for Home, Upload, Contact Us, FAQ, and About Us. A red warning message at the top center reads: '**IF YOUR ARE HAVING TROUBLE BREATHING, HAVE CHEST PAINS, OR SEVERE BLEEDING, PLEASE HEAD TO THE NEAREST EMERGENCY ROOM**'. Below this is a large blue button labeled 'NEAREST EMERGENCY ROOM'. Underneath are several questions with radio button options:

- Do you have a fever? (above 98.6 F or 37 C)
Yes No
- Have you ever had the Chicken pox?
Yes No
- Have you ever had Chicken pox before 6 months?
Yes No
- Are you experiencing any irritation in the affected area (Burning, itching, or tightness)
Yes No

At the bottom are two buttons: a white 'SKIP TO RESULTS' button and a teal 'SUBMIT' button. To the right of the 'SUBMIT' button is a teal speech bubble icon.

SYMCHECK **RESOURCES** **SUPPORT**

SYMCHECK	RESOURCES	SUPPORT
Home	Django	FAQ
Upload	TensorFlow	
Contact Us	Keras	
About Us	Repl.it	
	Google Map API	

*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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Advance Prediction Page

Sprint 6 Deliverable: New SymCheck Design



Home Upload Contact Us FAQ About Us

What is SYMCheck!

Welcome to SymCheck, an online image diagnosis application that will help you identify what illness you may have. Our site and 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 public site is up and monitoring its activity as well as its database. 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 is has amazing leadership skills that would put anyone to shame!



Swarnil Kadekar: Machine learning Engineer

Swarnil Kadekar as our Machine learning engineer designed and implemented an amazing algorithm using Tensorflow, Keras, and python



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 crises in an effort to minimize exposure! She has also been organizing any code and writing all technical documents



Alan Singleton: Full-Stack Developer

Alan Singleton as our Full-stack developer, implemented several of the pages HTML, CSS, and JavaScript. He has also set up the backend of our application to implement the results of our algorithm with python.



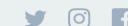
About Us Page

SYMCHECK	RESOURCES	SUPPORT
Home	Django	FAQ
Upload	TensorFlow	
Contact Us	Keras	
About Us	Repl.it	
	Google Map API	

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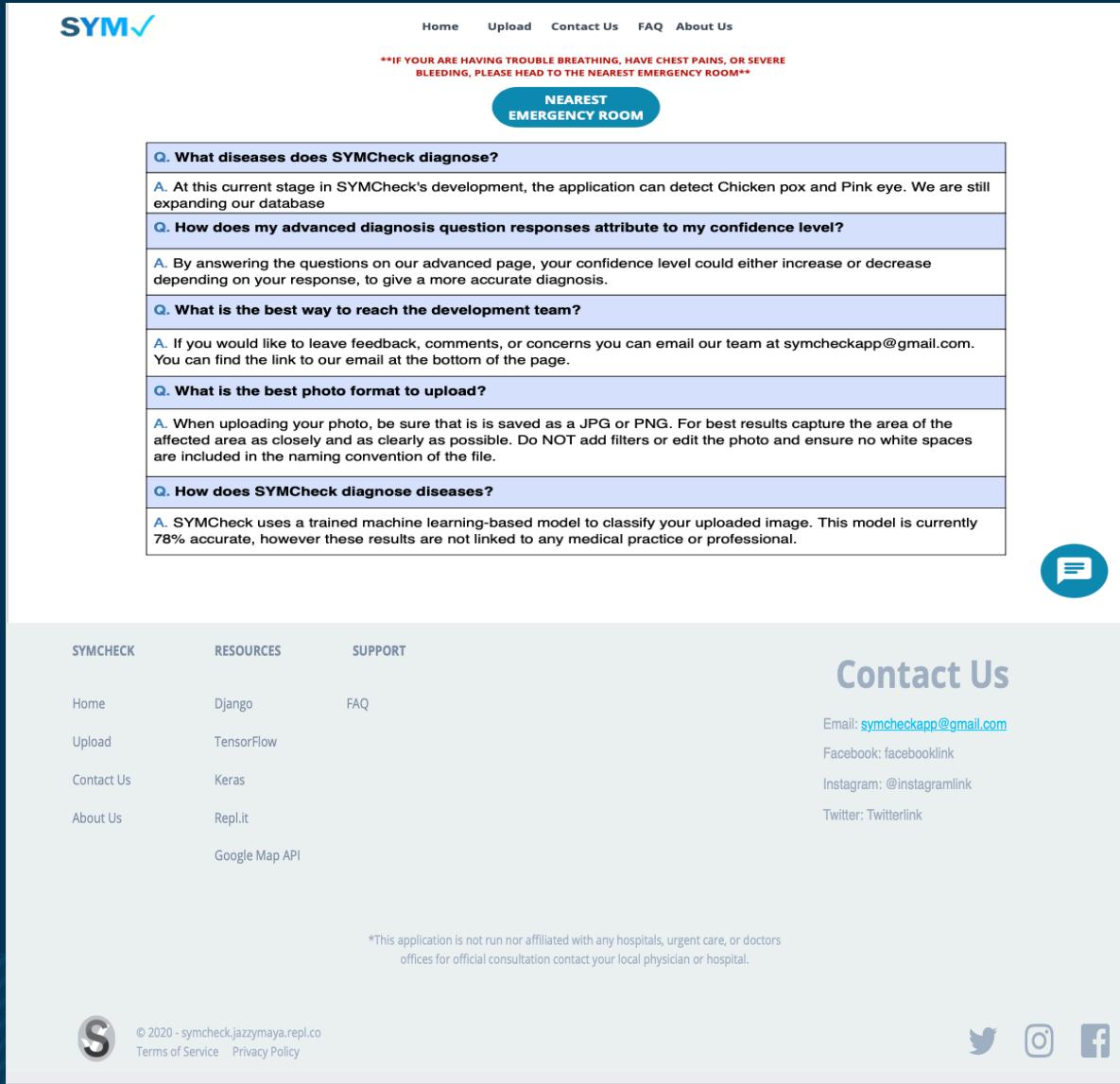
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Contact Us

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

Sprint 6 Deliverable: New SymCheck Design



The screenshot shows the FAQ section of the SymCheck website. At the top, there's a navigation bar with links to Home, Upload, Contact Us, FAQ, and About Us. Below this is a red warning message: "IF YOUR 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 FAQ content is organized into questions and answers:

- Q. What diseases does SYMCheck diagnose?**
A. At this current stage in SYMCheck's development, the application can detect Chicken pox and Pink eye. We are still expanding our database.
- Q. How does my advanced diagnosis question responses attribute to my confidence level?**
A. By answering the questions on our advanced 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 development team?**
A. If you would like to leave feedback, comments, or concerns you can email our team at symcheckapp@gmail.com. You can find the link to our email 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 a JPG or PNG. For best results capture the area of the affected area as closely and as clearly as possible. Do NOT add filters or edit the photo and ensure no white spaces are included in the naming convention of the file.
- 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, however these results are not linked to any medical practice or professional.

Below the FAQ, there's a "Contact Us" section with links to Home, Upload, Contact Us, About Us, Resources (Django, TensorFlow, Keras, Repl.it, Google Map API), and Support (FAQ). Social media icons for Twitter, Instagram, and Facebook are also present. A note at the bottom states: "This application is not run nor affiliated with any hospitals, urgent care, or doctors offices for official consultation contact your local physician or hospital."

FAQ Page



Acceptance Criteria and Test Case

Acceptance Criteria

Key

Summary

Label

HID-81

1. Given that the patient is on any page, when the patient clicks the FAQ button, then the patient should access the FAQ page
2. Given that the patient is on the FAQ page, when the patient clicks the Home button, then the patient is returned to the Homepage
3. Given that the patient is on the FAQ page, when the patient clicks on the New Diagnosis button, then the patient is rerouted to the ImageUpload page
4. Given that the patient is on the FAQ page, when the patient clicks the Find Nearest Emergency Room button, then the patient will see the nearest ERs and interact with the map
5. Given that the patient is on the FAQ page, when the patient clicks the send feedback link, then the application will open the patient's default mail app with the email section prefilled to send to symcheckapp@gmail.com

FAQ Page



Test Cases

Test Case For	Key	Test Cases	Test Data	Expected Results	Actual Results	Pass/Fail
FAQPage	HID-81	Questions and Answers		Patient can see listed questions and respective answers	Patient sees listed questions and respective answers	P
FAQPage	HID-81	Return to Home		Patient can return to the homepage	Patient is returned to the homepage	P
FAQPage	HID-81	New Diagnosis		Patient can access the image upload page	Patient is rerouted to the image upload page	P
FAQPage	HID-81	Find Nearest ER		Patient can access the interactive map with nearest ERs shown	Patient can use the emergency ER feature	P
FAQPage	HID-81	Feedback	"Test"	Patient can send feedback via email to SymCheck developers	Patient can send an email to symcheckapp@gmail.com	P

Project Timeline

Sprint 7 (March 16 - April 5)

<input type="checkbox"/> 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	SymCheck	SK	HID-59	↑	5
<input checked="" type="checkbox"/> Redo SymCheck's application design		BF	HID-83	↑	
<input type="checkbox"/> 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	SymCheck	MF	HID-82	↑	3
<input type="checkbox"/> As a patient, I want to access an About Us page so that I can get to know more about the SymCheck creators	SymCheck	BF	HID-93	↑	1
<input type="checkbox"/> As a patient, I want to know which illnesses SymCheck can diagnose so that I know what I can upload.	SymCheck	SI	HID-79	↓	1
<input checked="" type="checkbox"/> Add a disclaimer at the bottom of each page		BF	HID-80	↓	
<input checked="" type="checkbox"/> Create a presentation for Sprint 7	JW		HID-71	↓	

Metrics

➤ 4 User Stories

➤ 10 Story Points Total

➤ 3 Tasks

Sprint Goal

➤ Completely redesign SymCheck

Highest Story

➤ Finishing the advanced prediction page

Sprint 8 (April 6 - April 27)

<input type="checkbox"/> 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	SymCheck	JW	HID-62	↑	8
<input type="checkbox"/> As a patient, I want to access SymCheck on my mobile device for convenience	SymCheck	AS	HID-64	↑	5
<input checked="" type="checkbox"/> Add ringworm as another illness that can be predicted		SK	HID-78	↑	
<input checked="" type="checkbox"/> Develop a python script to clear media folder OR implement a database for uploaded pictures		BF	HID-73	↑	
<input checked="" type="checkbox"/> Set up AWS environment for development and production		MF	HID-88	↑	
<input checked="" type="checkbox"/> Create a presentation for Sprint 8		JW	HID-72	↓	

Metrics

➤ 2 User Stories

➤ 13 Story Points Total

➤ 4 Tasks

Sprint Goal

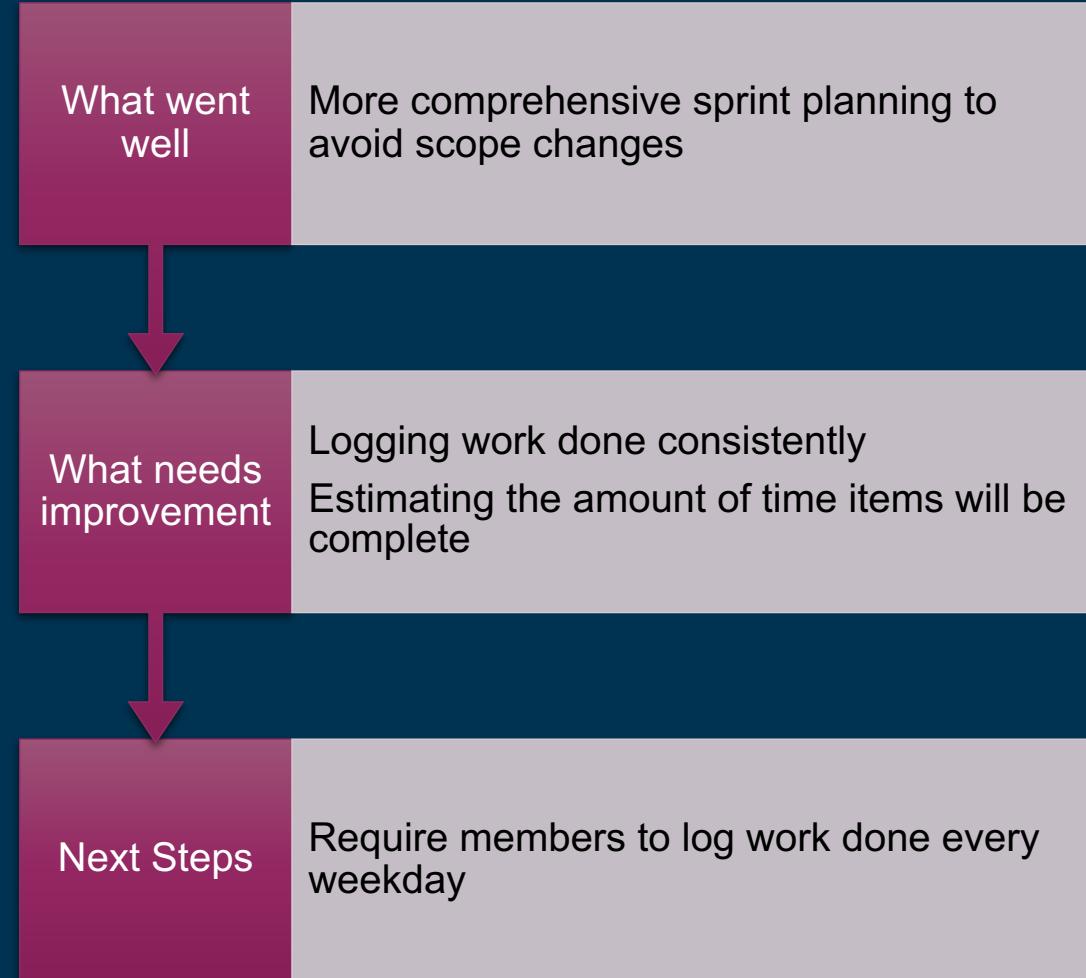
- Host our application to the cloud and add a new illness

Highest Story

- Hosting our application to the Cloud (AWS)

Retrospectives

Retrospectives



Conclusion

Link to GitHub

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