

TSA-SD WORK LOG				
Date	Task	Time involved	Team member responsible (student initials)	Comments
2/06/25	Uploading images via ReactJS	2.5 hrs	KP	Uploading an image- KP
2/10/25	Built ReactJS App	7.5 hrs	SH	Learned ReactJS Created basic frontend app and CSS formatting- SH
2/16/25	Training AI and setting up Flask server	3 hrs	SH, SS, KP	AI failed to work- Kanisk Flask server running- Kanisk
2/17/25	Fixing AI and starting React frontend	5 hrs	SH, SS, KP	SS: Front-end development and backend debugging KP: AI development and training SH: Front End CSS
2/19/25	Bootstrapping, Adding frontend features, fixing lag from when the user analyzed an image and got their result back	2.5 hrs	SH, SS, KP	SH: Button animation, Button styling, navbar styling KP: AI bootstrapping, Results and diagnosis page frontend, fixed Upload + Analyze page bug, home page animation/features description. Bootstrapping issue SS: Navbar styling, Upload button styling, home page animation/features description
2/21/25	Frontend work and	1.5 hrs	SH SS,	SH: Upload page

	animations		KP	styling and animations, features description SH: KP:
2/22/25	Home page front end and image slider Fixing AI model	2 hrs	SH, KP, SS	SH: Image slider and animation SS: Image slider and animation KP: Fixing AI model
2/26	Editing front end	1.5 hrs	SH	Fixed modal size and color Edited size and titles of diagnosis page
3/12	Editing front end	1.5 hrs	SH	Made some changes to the front end slider. Added a hero section.
3/13	Adding animations	1.5 hrs	SH	Added basic animations using tailwind. Changed the color scheme of the homepage.
3/15	Added animations Revamped front end Introduced a new dictionary for AI	SS: 4 hrs KP: 5 hrs SH: 5 hrs	SH, KP, SS	SS & SH: Added animations throughout the homepage SS: Changed color theme of the website SH: Added modals to further explain each plant disease KP: Added a new dictionary and ran epochs
3/16	Edited color theme and fixed features page	1.5 hrs	SH, KP, SS	SH: Fixed color scheme and fixed features page SS: Designed AI Results Page KP: Attempted to fix AI training
3/18	Finish Slider	0.5 hrs	SH	Added a hero section in the slider (left div)

3/24	Front-end light/dark mode Revamped diagnosis page Fixed AI accuracy graph	1.5 hrs	SH, SS, KP	SH: Fixed home screen light/dark theme, fixed upload page, revamped diagnosis page SS: Fixed AI accuracy graph and fixed home screen KP: Made diagnosis page slider and tried to fix AI
3/28	Front-end light/dark mode Fixed AI and AI accuracy graph	4 hrs	SH, SS, KP	SH: Fixed diagnosis page and upload page light/dark theme, revamped modals, edited disease descriptions SS: Fixed scroll animations, fixed backend server issues, fixed accuracy graph KP: Fixed AI successfully, fixed AI accuracy chart
3/29	Continue front end Fix AI accuracy graph	1.5 hrs	SH, KP	SH: Upload page and homepage slider frontend KP: Editing accuracy graph function
4/06	Revamp Frontend Architectural Software Design Finish Backend and AI	4.5 hrs	SH, KP, SS	

4/09	Revamp Diagnosis Page frontend	1.5 hrs	SH, KP	
4/10	Revamped Upload Page Revamp navbar Added login function	KP: 4 hrs SH: 2.5 hrs	SH, KP	Login function works
4/11	Finish Navbar	0.5 hrs	KP	KP: Added navbar animation
4/12	Fixed minor issues with frontend Make AI results code Pitch	KP: 5 hrs SH: 3 hrs	SH	KP: Fixed the AI Results page and added login features and clear history buttons SH: Fixed minor coloring issues

4/13	Finalized and polished the app	6 hrs	SS, KP, SH	
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WORKS CITED

https://cdn.pixabay.com/photo/2023/08/24/12/21/farming-8210675_1280.jpg
https://cdn.pixabay.com/photo/2014/10/08/20/52/cereals-480691_1280.jpg
https://cdn.pixabay.com/photo/2023/07/20/12/55/field-8139258_1280.jpg
https://cdn.pixabay.com/photo/2016/11/30/15/00/apples-1872997_1280.jpg
https://cdn.pixabay.com/photo/2015/10/24/20/03/apples-1004886_1280.jpg
https://cdn.pixabay.com/photo/2023/10/06/19/51/corn-8299009_1280.jpg
https://cdn.pixabay.com/photo/2018/08/19/12/02/field-3616468_1280.jpg
https://cdn.pixabay.com/photo/2018/05/16/19/37/spring-3406856_1280.jpg

Powdery Mildew:

<https://ipm.ucanr.edu/home-and-landscape/powdery-mildew-on-vegetables/pest-notes/#gsc.tab=0>

Chlorosis:

<https://apps.msueextension.org/montguide/guide.html?sku=MT202205AG#:~:text=Soil%20conditions%20such%20as%20compaction,nutrients%20unavailable%20to%20the%20roots.>

Spots on Leaves:

<https://extension.umn.edu/plant-diseases/leaf-spot-diseases-trees-and-shrubs>

Pest Infestation:

<https://www.farmraise.com/blog/battling-bugs-a-guide-to-common-pests-on-farms-and-crops>

Apple Scab/Rot:

<https://extension.umn.edu/plant-diseases/apple-scab>

<https://extension.umn.edu/plant-diseases/black-rot-apple>

Corn Northern Leaf Blight:

<https://plantpathology.ca.uky.edu/files/ppfs-aq-c-10.pdf>

Bacterial Spots:

<https://hort.extension.wisc.edu/articles/bacterial-spot-of-tomato/>

Blight:

<https://www.merriam-webster.com/dictionary/blight>

Root Rot:

<https://www.elitetreecare.com/library/tree-diseases/root-rot/#:~:text=Root%20rot%20is%20a%20disease,branch%20dieback%2C%20and%20eventual%20death.>

Fungal Infections

<https://my.clevelandclinic.org/health/diseases/24401-fungal-infections-mycosis>

Fungal Leaf Spot:

<https://portal.ct.gov/caes/fact-sheets/plant-pathology/fungal-leaf-spots-of-trees-and-ornamentals#:~:text=Leaf%20spot%20symptoms%20vary%20depending,that%20encompass%20the%20entire%20leaf.>

Fungal Wilt:

<https://www.sciencedirect.com/topics/agricultural-and-biological-sciences/fungal-wilt#:~:text=Fusarium%20fungal%20wilt%20is%20on e,soil%2Dborne%20Fusarium%20oxysporum%20f.>

Leaf Diseases:

<https://earthsally.com/disease-control/common-plant-diseases.html>

AI Training Datasets:

<https://www.kaggle.com/datasets/vipooooool/new-plant-diseases-dataset>

<https://www.kaggle.com/datasets/emmarex/plantdisease>