Project Design Phase-II
Data Flow Diagram & User Stories

Date	30 October 2023
Team ID	Team-593479 (2.9)
Project Name	Malware Detection and Classification
Maximum Marks	4 Marks

Team Members:

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Data Flow:

The data flow for the proposed solution starts with user interactions on the user-friendly website, where authentication processes occur before users access malware detection services. Upon file upload, data flows to the AI-based classification system, where machine learning models analyze the uploaded data, classifying and detecting potential threats. The results of the threat classification, along with user education data, feed into the cloud-based infrastructure for secure storage and compliance adherence. This diagram depicts a seamless flow: from user interactions to threat analysis, and secure data handling within the cloud, ensuring a comprehensive and adaptive system for malware detection and classification.

Data Flow Diagram:
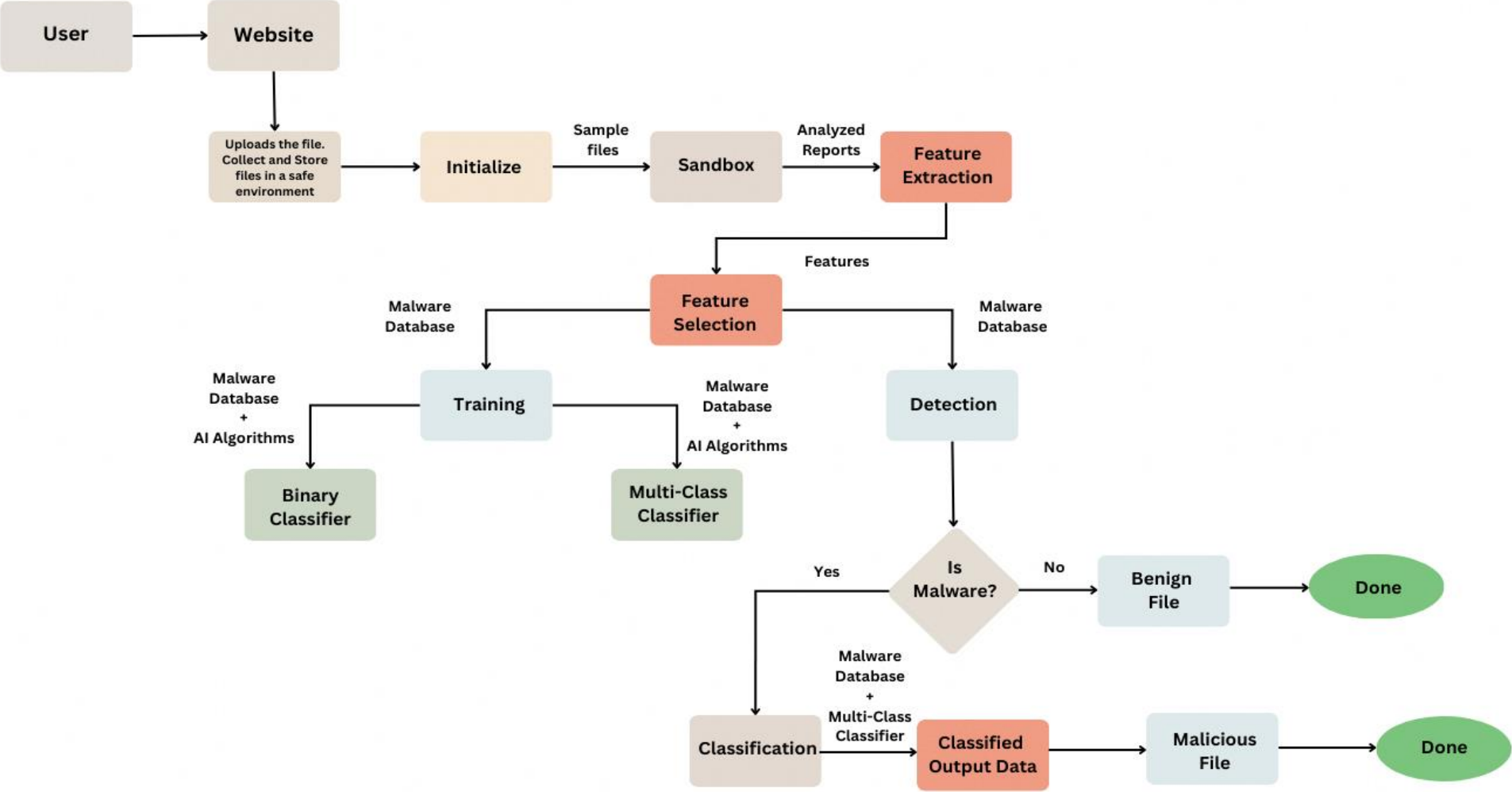
User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Web Application user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
	Login	USN-3	As a user, I can log into the application by entering email & password	I can enter email and password and login	High	Sprint-1
	Scan	USN-4	As a user, I can upload files and check if they are malicious.	I can and upload and scan files.	High	Sprint-2
		USN-5	As a user, I can view the report after the scan is complete.	I can view the report.	High	Sprint-2
		USN-6	As a user, I can also get the report sent it to the registered mail.	I can get a backup report.	Medium	Sprint-2
	Awareness	USN-7	As a user, I can know the details of the malware in the file uploaded.	I can be aware of the malware.	High	Sprint-3
		USN-8	As a user, I can also get more awareness of malwares through the blogs.	I can be aware of the malware.	Low	Sprint-3
	Logout	USN-9	As a user, I can logout of the website for a safer environment.	I can logout of the website.	Medium	Sprint-3
Customer (Mobile User)	Login	USN-3	As a mobile user, I can also login to the website using email and password through mobile	I can enter email and password to login.	Medium	Sprint-1
	Scan	USN-4	As a mobile user, I can upload files in my mobile to check if they are safe and get the report generated.	I can upload files in my mobile.	Medium	Sprint-2

	Awareness	USN-7	As a mobile user, I can know the details of the malware in the file uploaded.	I can be aware of the malware.	Medium	Sprint-3
Corporate Companies	Upload	USN-10	As a corporate, I can upload files in bulk with premium subscription with faster scanning.	I can upload in bulk and faster results.	High	Sprint-4
More Customers	Develop AI model	USN-11	When a lot of people upload their files. The AI model is engaged with different types of malwares.	Different types of malwares are known.	High	Sprint-5
Cybersecurity Firms	Easy their work	USN-12	As a person from a cybersecurity firm, scanning files through a website reduces the burden to check for malwares manually.	Easy the load of work.	Medium	Sprint-6
Administrator	Frequent check	Admin	As an admin, I can constantly monitor the website and update if necessary. The main goal is to provide a secure environment to the users.	I can monitor the website frequently and update it.	High	Sprint-1