

Project Design Phase-II Data Flow Diagram & User Stories

Date	30October 2023
Team ID	Team – 587578 (2.12)
Project Name	MALWARE DETECTION AND CLASSIFICATION
Maximum Marks	4 Marks

Team Members:

Naladala Navya
Sanisetty Hema Sagar
Kurra Naveen Abhiram
Vishnubhatla V L Sruta Keerthi

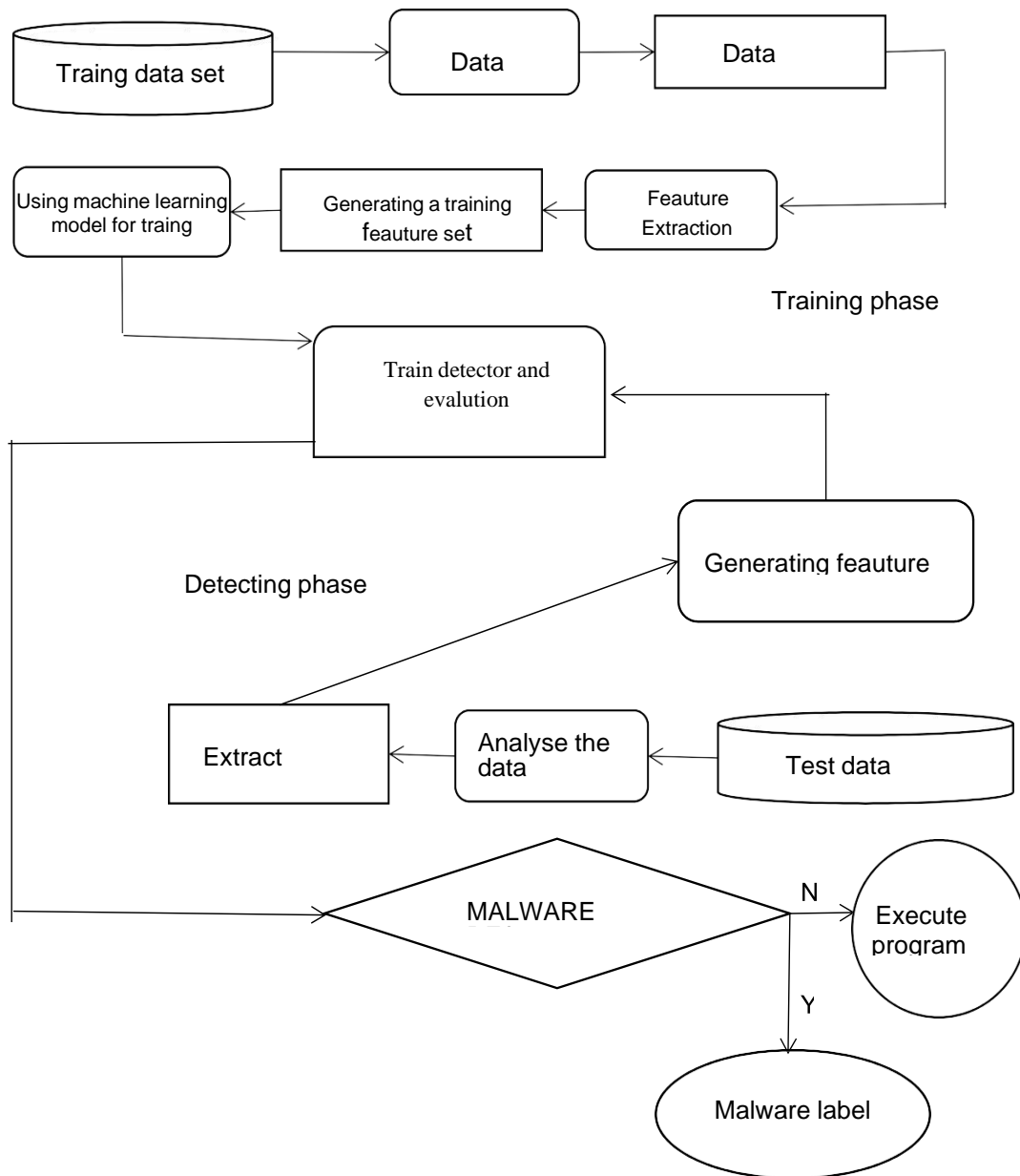
Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

DATA FLOW:

- Data is acquired from various sources, including network traffic logs, file systems, and data feeds.
- The acquired data undergoes preprocessing to clean, transform, and normalize it.
- In the feature extraction layer, relevant features are extracted and transformed into feature vectors.
- These feature vectors are fed into the machine learning model layer, where the classification takes place.
- Real-time analysis and detection determine whether the incoming data contains malware.
- If malware is detected, the reporting and alerting interface issues alerts and notifications to relevant parties.
- The deployment and scalability layer ensures the system can accommodate growing data loads and users.
- Security and compliance measures are maintained throughout the process to protect the system and data.
- The research and development layer ensures the system's adaptability to evolving malware threats through continuous updates and improvements.

DATA FLOW DIAGRAM OF PROJECT:



User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer	Customer_Registrati on	USN-1	I may register for the application as a user by providing my email address, creating a password, and verifying it.	Can login to my account	High	Sprint-1
		USN-2	Setting of Multi factor authentication(MFA) for assuring more security	Downloading repsective app(Microaoft or google Auth)	High	Sprint-1
		USN-3	As a user, I will receive confirmation email once I have registered for the application	Redirecting to given link	High	Sprint-1
	Login	USN-4	As a user, I can log into the application by entering email , password and MFA	Render to home page	High	
	Scan	USN-5	Selecting options and uploading of selected files	Upload from drive or device and can scan	High	Sprint-2
		USN-6	Completion of scan and report generation	View and download the report	High	Sprint-2
		USN-7	Downloading and backing up the report	Report backup	Medium	Sprint-2
	Awareness	USN-8	As a user, I can know the details of the malware in the file uploaded. I can be aware of the malware.	Malware awrnness	High	Sprint-3
		USN-9	Suggesting of related articals and blogs of malware.	Knowledge regarding malware	Low	Sprint-3
	Exploring	USSN-10	Exploring various feautres in web	Knowing about more accessibilities	low	Sprint-3
	Logout	USN-9	Logging out user account	I can logout of the website.	Medium	Sprint-3
Customer (Mobile)	Customer_Registrati on	USN-1	I may register for the application as a user by providing my email address, creating a password, and verifying it.	Can login to my account	High	Sprint-1

		USN-2	Setting of Multi factor authentication(MFA) for assuring more security	Downloading repsective app(Microaoft or google Auth)	High	Sprint-1
		USN-3	As a user, I will receive confirmation email once I have registered for the application	Redirecting to given link	High	Sprint-1
	Login	USN-4	As a user, I can log into the application by entering email , password and MFA	Render to home page	High	Sprint-1
	Scan	USN-5	Selecting options and uploading of selected files	Upload from drive or device and can scan	High	Sprint-2
Corporate Companies	Upload	USN-11	As a corporate user, I can receive real-time alerts and notifications when potential threats are detected in the files I've uploaded.	This enhances the security of my uploaded data.	High	Sprint-4
Admin	Maintainance	Admin	As an admin, I can perform regular security audits and vulnerability assessments on the website to ensure it remains resilient against emerging threats	Global modulator	High	Sprint-1