ID	User Stories	User Acceptance	Major Activities	Time Estimation	Sprint	Progress Status	Person In Charge	Cooperated By
PB1	As a director of a healthcare institute, I need a system with user authentication and access control, so that sensitive patient information is accessible only to authorized personnel.	All necessary healthcare workers will be given login credentials and their roles determine the restrictions on access to patient information. Unauthorized access attempts are recorded and reported to the security department.	Investigate how login credentials function	1 Week	1	Completed	Kai Yan	Alicia
			Investigate encryption technique	1 Week	1	Completed	Kai Yan	Alicia
			Select appropriate encryption technique	1 Week	2	In-Progress	Kai Yan	Alicia
			Develop role-based access control (RBAC) system	2 Weeks	2	Not Started	Kai Yan	Alicia
			Implement user authentication system	2 Weeks	3	Not Started	Kai Yan	Alicia
			Set up security logging and alerting	2 Weeks	4	Not Started	Kai Yan	Alicia
			Perform system security testing and finetune it if needed	3 Weeks	4	Not Started	Kai Yan	Alicia
PB2	As a doctor, I want to be able to enter my patient's diagnosis more efficiently into the system whereby I can scan my written diagnosis into the database, so that I don't have to spend extra time manually re-entering it into the system.	The AHIS has a HTR model integrated to it to scan and upload doctor's handwritten diagnoses. Uploaded diagnoses are accurately converted into digital format by the HTR model which is a faster process compared to manual entry.	Research on Handwritten Text Recognition (HTR) Model	1 Week	1	In-Progress	Jesse	Eunice
			Collect dataset to train, test and validate the HTR model	1 Week	1	In-Progress	Jesse	Eunice
			Train the HTR model with training dataset	4 Weeks	2	Not Started	Jesse	Eunice
			Evaluation HTR model with validation dataset	2 Weeks	2	Not Started	Jesse	Eunice
			Test and retrain HTR model to optimize model accuracy	2 Weeks	3	Not Started	Jesse	Eunice
			Develop scanning and upload feature	4 Weeks	3	Not Started	Jesse	Eunice
			Integrate scanning and upload feature to AHIS	2 Weeks	4	Not Started	Jesse	Eunice
			Integrate HTR model to AHIS	2 Weeks	4	Not Started	Jesse	Eunice
			Monitor performance of HTR model in AHIS	3 Weeks	4	Not Started	Jesse	Eunice
PB3	As a nurse, I want to be able to enter my patient's information during registration whereby I can scan the patients' written name and id into the database, so that I do not need to let the patient wait for their turn just for their information to be added to the clinic's database.	The AHIS has a HTR model integrated to it to streamline the registration process by allowing scanning of handwritten patient information during registration, reducing patient wait times. The clinic's patient database is accurately filled with the scanned information.	Research on Handwritten Text Recognition (HTR) Model	1 Week	1	In-Progress	Eunice	Jesse
			Collect dataset to train, test and validate the HTR model	1 Week	1	In-Progress	Eunice	Jesse
			Train the HTR model with training dataset	4 Weeks	2	Not Started	Eunice	Jesse
			Evaluation HTR model with validation dataset	2 Weeks	2	Not Started	Eunice	Jesse
			Test and retrain HTR model to optimize model accuracy	2 Weeks	3	Not Started	Eunice	Jesse
			Develop scanning and upload feature	4 Weeks	3	Not Started	Eunice	Jesse
			Integrate scanning and upload feature to AHIS	2 Weeks	4	Not Started	Eunice	Jesse
			Integrate HTR model to AHIS	2 Weeks	4	Not Started	Eunice	Jesse
			Monitor performance of HTR model in AHIS	3 Weeks	4	Not Started	Eunice	Jesse
PB4	As a patient, I need assurance that my personal health data and diagnosis remain confidential in order to safeguard my privacy and prevent any potential misuse of my information.	The AHIS have adequate encryption and security measures in place to protect patient personal health data.	Investigate how login credentials function	1 Week	1	Completed	Kai Yan	Alicia
			Investigate encryption technique	1 Week	1	Completed	Kai Yan	Alicia
			Select appropriate encryption technique	1 Week	2	In-Progress	Kai Yan	Alicia
			Develop role-based access control (RBAC) system	2 Weeks	2	Not Started	Kai Yan	Alicia
			Implement user authentication system	2 Weeks	3	Not Started	Kai Yan	Alicia
			Set up security logging and alerting	2 Weeks	4	Not Started	Kai Yan	Alicia
			Perform system security testing and finetune it if needed	3 Weeks	4	Not Started	Kai Yan	Alicia
PB5	As a system administrator of a healthcare clinic, I need a scalable database design that can handle increasing amounts of data without any performance degradation, ensuring that we can continue to provide timely care as our patient base grows.	The database can scale horizontally without significant performance loss.	Investigate different database structures	1 Week	1	Completed	Alicia	Kai Yan
			Select appropriate database structure	1 Week	2	Completed	Alicia	Kai Yan
			Design and implement a scalable database structure	3 Weeks	3	Completed	Alicia	Kai Yan
			Test scalability of database	2 Weeks	4	Completed	Alicia	Kai Yan
			Monitor and fine-tune database performance	2 Weeks	4	Completed	Alicia	Kai Yan
			Integrate database to AHIS	2 Weeks	4	Completed	Alicia	Kai Yan
PB6	As a healthcare clinic pharmacist, I need a system that helps me manage medication prescriptions and history, so that I can track and verify patient medications efficiently.	Authorized personnel can retrieve and verify prescriptions or medication information that is prescribed to patients quickly and accurately.	Investigate on how doctors' prescription is retrived	1 Week	1	Completed	Kai Yan	Alicia
			Implement a secure prescription retrieval system	3 Weeks	2	In-Progress	Kai Yan	Alicia
			Optimize database indexing for efficient query search	2 Weeks	2	Not Started	Kai Yan	Alicia
			Implement role-based data access	2 Weeks	3	Not Started	Kai Yan	Alicia
			Ensure compliance with healthcare regulations	1 Week	4	Not Started	Kai Yan	Alicia
PB7	As a nurse, I need a user-friendly interface for our health information system, so that I can navigate and use the system easily.	The AHIS will be designed so that it can be easily used with minimal staff training required.	Investigate how the system will impact user satisfaction	1 Week	1	Completed	Kai Yan	Alicia
			Investigate on intuitive user interface (UI) designs	1 Week	1	Completed	Kai Yan	Alicia
			Select appropriate UI designs to implement	1 Week	2	Completed	Kai Yan	Alicia
			Implement selected UI design	3 Weeks	3	In-Progress	Kai Yan	Alicia
			Test the system with real users and improve from feedback	2 Weeks	4	Not Started	Kai Yan	Alicia
PB8	As a doctor's assistant, I need to be able to help doctors to schedule appointments for registered patients, ensuring that their care is organized and timely.	Appointments between patient and doctor can be scheduled without errors. AHIS will update changes in these appointments with doctors' calendars in real-time.	Investigate on appointment scheduling feature	1 Week	1	In-Progress	Kai Yan	Alicia
			Investigate on real-time update feature	1 Week	1	In-Progress	Kai Yan	Alicia
			Implement appointment scheduling feature with real time updates	2 Weeks	2	Not Started	Kai Yan	Alicia
			Integrate appointment scheduling feature into AHIS	2 Weeks	3	Not Started	Kai Yan	Alicia
			Integrate appointment scheduling feature with doctors' calendars	2 Weeks	3	Not Started	Kai Yan	Alicia
			Monitor and test for accuracy and reliability	2 Weeks	4	Not Started	Kai Yan	Alicia
PB9	As a doctor, I want the system to allow me to initiate patient encounters based on the day's scheduled appointments, so that I can manage my time and patient flow effectively.	Doctors can initiate patient encounters directly from the appointment schedule displayed in the AHIS.	Investigate on encounter initiation feature	1 Week	1	In-Progress	Alicia	Kai Yan
			Select appropriate encounter initiation feature to implement	1 Week	2	Not Started	Alicia	Kai Yan
			Implement the encounter initiation feature	2 Weeks	2	Not Started	Alicia	Kai Yan
			Integrate encounter initiation with patient records in database	2 Weeks	3	Not Started	Alicia	Kai Yan
			Implement role-based data access so only doctors can initiate	2 Weeks	3	Not Started	Alicia	Kai Yan
			Monitor and test the encounter initiation process	2 Weeks	4	Not Started	Alicia	Kai Yan
PB10	As a healthcare worker, I want a system that is compatible with various devices, so that I can access patient information regardless of the technology I'm using.	AHIS can meet all required performance standards across all platforms on any device with any operating system (OS).	Investigate on cross-platform performance standards	1 Week	1	Completed	Kai Yan	Alicia
			Investigate on the compatibility requirement on different OS	1 Week	1	Completed	Kai Yan	Alicia
			Investigate on a responsive UI design	1 Week	1	Completed	Kai Yan	Alicia
			Implement a responsive UI design to AHIS	3 Weeks	2	In-Progress	Kai Yan	Alicia
			Optimize for mobile and desktop platforms	2 Weeks	3	Not Started	Kai Yan	Alicia
			Monitor and test across different devices with different OS	2 Weeks	4	Not Started	Kai Yan	Alicia