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BACKGROUND

Outcomes4Me is an application to assist cancer patients with their treatment and care. The application provides treatment options, clinical trials, and health tracking tools based on the medical history and health data provided by the user. This supports patients in making informed decisions.

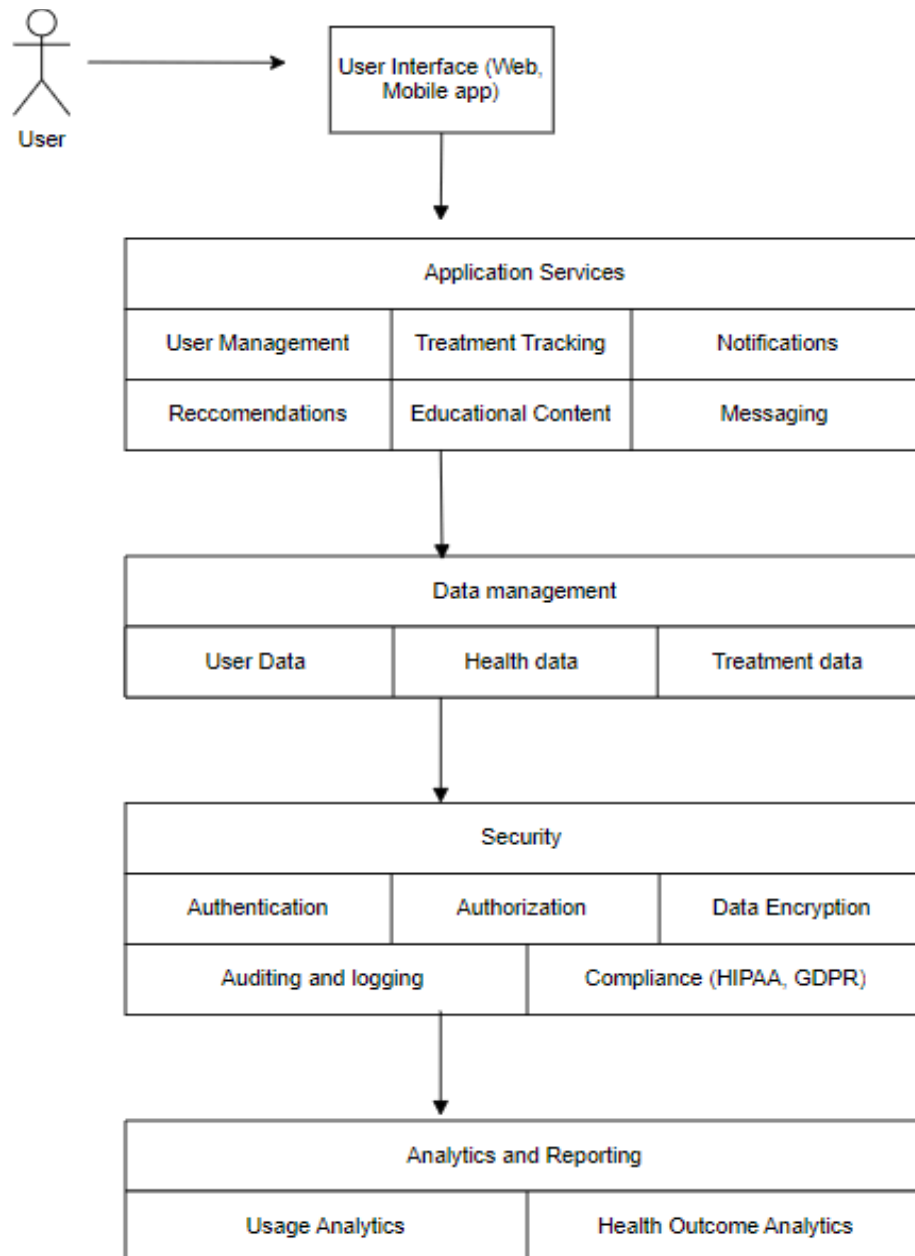
Key Features:

- Provides information on latest treatment options based on the user's medical history.
- Integrates guidelines from leading cancer organisations like NCCN (National Comprehensive Cancer Network).
- Matches users with relevant clinical trials based on their individual health profiles and treatment history.
- Allows users to track symptoms, side effects, medications, and other health metrics.
- Provides insights into how treatments and lifestyle changes are affecting the user's health.
- Integration with electronic health records (EHRs) to pull in relevant medical data.
- Supports manual entry of health information to keep a comprehensive record of their health.
- Support through care navigators or coaches who can help users understand their treatment options and manage their care.

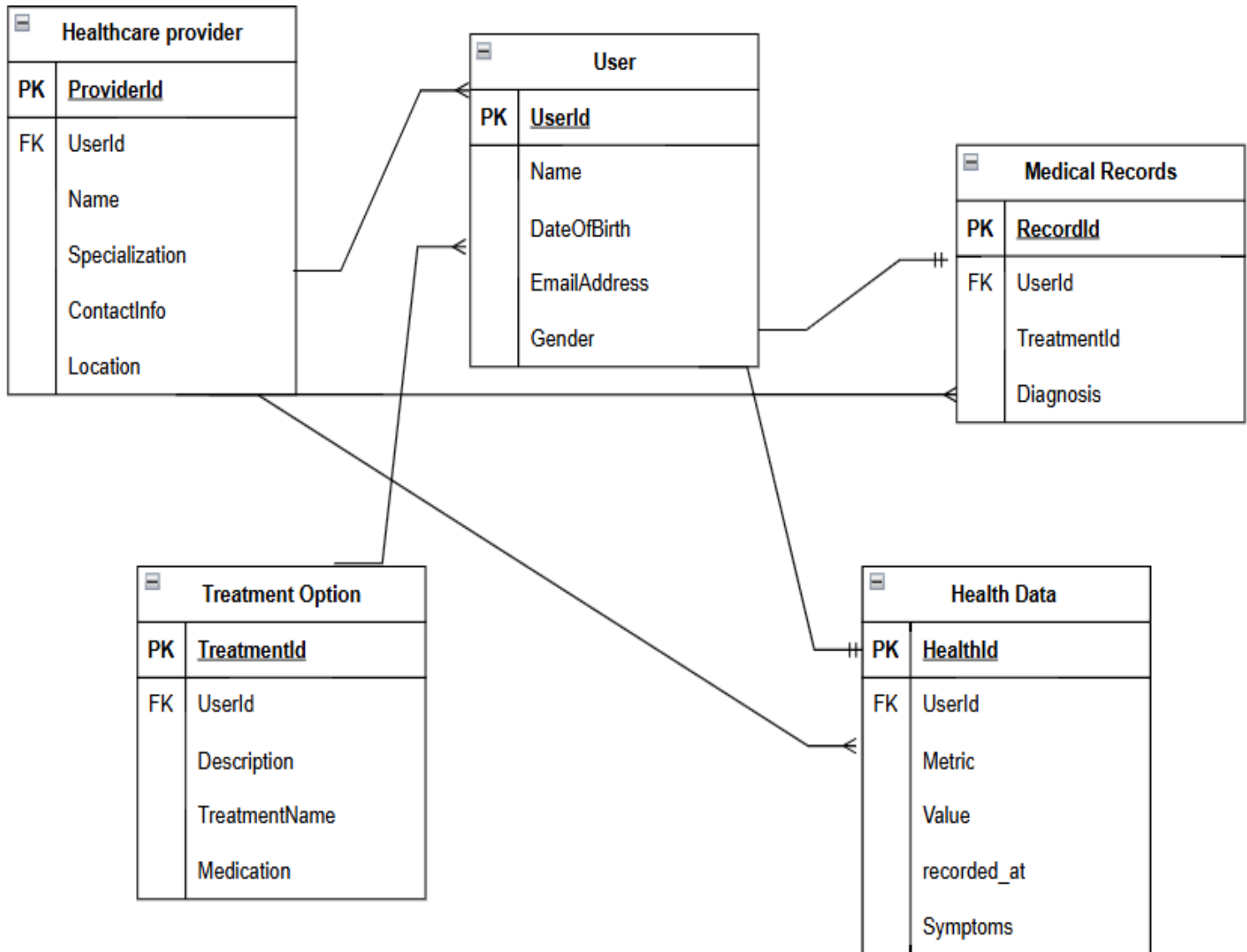
Benefits:

- The users are able to make informed decisions with the tools and services the system provides.
- Uses personal health data to tailor treatment options and recommendations.
- Makes it easier for patients to find and enrol in clinical trials, potentially accessing new and innovative treatments.

LAYERED INFORMATION SYSTEM ARCHITECTURE (Appendix A)



ENTITY RELATIONSHIP (Appendix B)



FUNCTIONAL REQUIREMENTS

1. Authentication and Authorization:

- Users should be able to safely register and log in.
- Access controls should be appropriate for the various user roles (e.g., doctors, patients).

2. Personalised Suggestions

- Personalised options for therapy should be provided by the application based on individual data including cancer type, stage, and medical background.
- The connection with medical databases allows for the most recent recommendations and options for treatment.

3.Management of Records

- It should be possible for users to upload, manage, and get to their medical records.
- Medical data is stored and accessed securely.

4. Tracking and Noting Symptoms

- It should be possible for patients to record side effects and symptoms.
- Offer reports on changes and trends of symptoms throughout time.

5. Making Appointments

- Appointments with healthcare providers should be easy for users to follow and arrange.
- Notifications and reminders for appointments.

6. Materials

- Make instructional materials regarding treatments for cancer, side effects, and ways to deal with them.
- The combination with trustworthy sources of medical data.

7. Communication

- Secure messaging system for patients to communicate with healthcare providers.
- Support for video consultations.

8. Notification Alerts

- Push notifications can be used to receive updates on possibilities for treatment, messages, or appointment reminders.
- Notifications of important changes in a patient's status.

9. Analytics and Reporting

- Analytical techniques provide understanding on patient outcomes and the benefit of treatments.
- Produce complete reports for doctors and patients.

10. Support and Feedback

- A system within the program that allows users to offer feedback.

NON-FUNCTIONAL REQUIREMENTS

1. Security

- Ensure data encryption both in transit and at rest to protect patient information.
- Compliance with healthcare regulations - HIPAA (Health Insurance Portability and Accountability Act).

2. Performance

- The application should load within a few seconds and respond quickly to interactions.
- Scalability to handle a large number of users simultaneously without performance degradation.

3. Usability

- Intuitive user interface with easy navigation.
- Accessible design to accommodate users with disabilities.

4. Reliability and Availability

- The system should have minimal downtime and provide a reliable service.
- Regular backups and a disaster recovery plan in place.

5. Interoperability

- Compatibility with various devices.
- Ability to integrate with other healthcare systems and electronic health records (EHR) seamlessly.

6. Maintainability

- The codebase should be well-documented and modular to facilitate easy updates and maintenance.
- Regular updates and patches to fix bugs and improve functionality.

7. Privacy

- Ensure user data is only accessible to authorised users.
- Transparent privacy policies that inform users about data usage and consent.

8. Scalability

- The system should be able to scale up to accommodate growing numbers of users and increased data volumes.

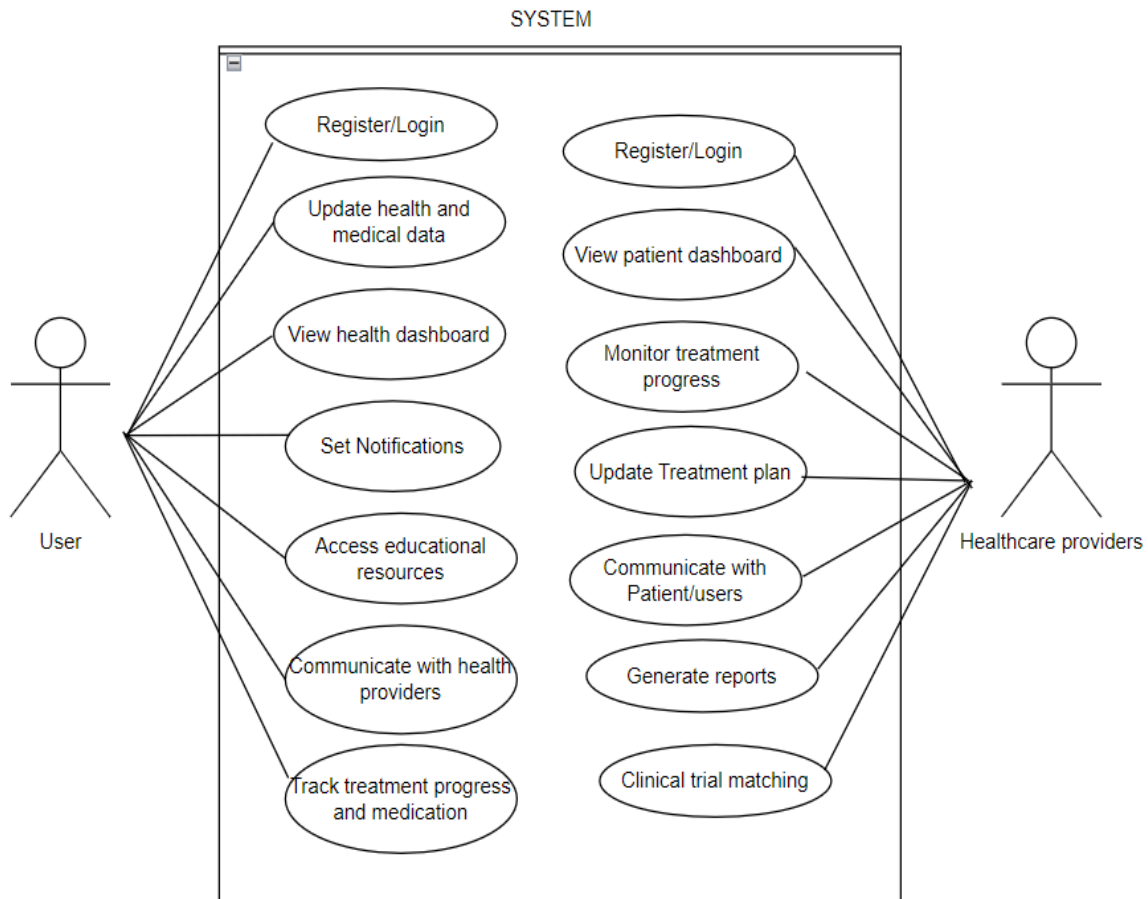
9. Compliance

- Compliance with all applicable rules and norms in the healthcare industry.
- Regular audits to ensure ongoing compliance.

10. Localization

- Support for multiple languages to cater to a diverse user base.

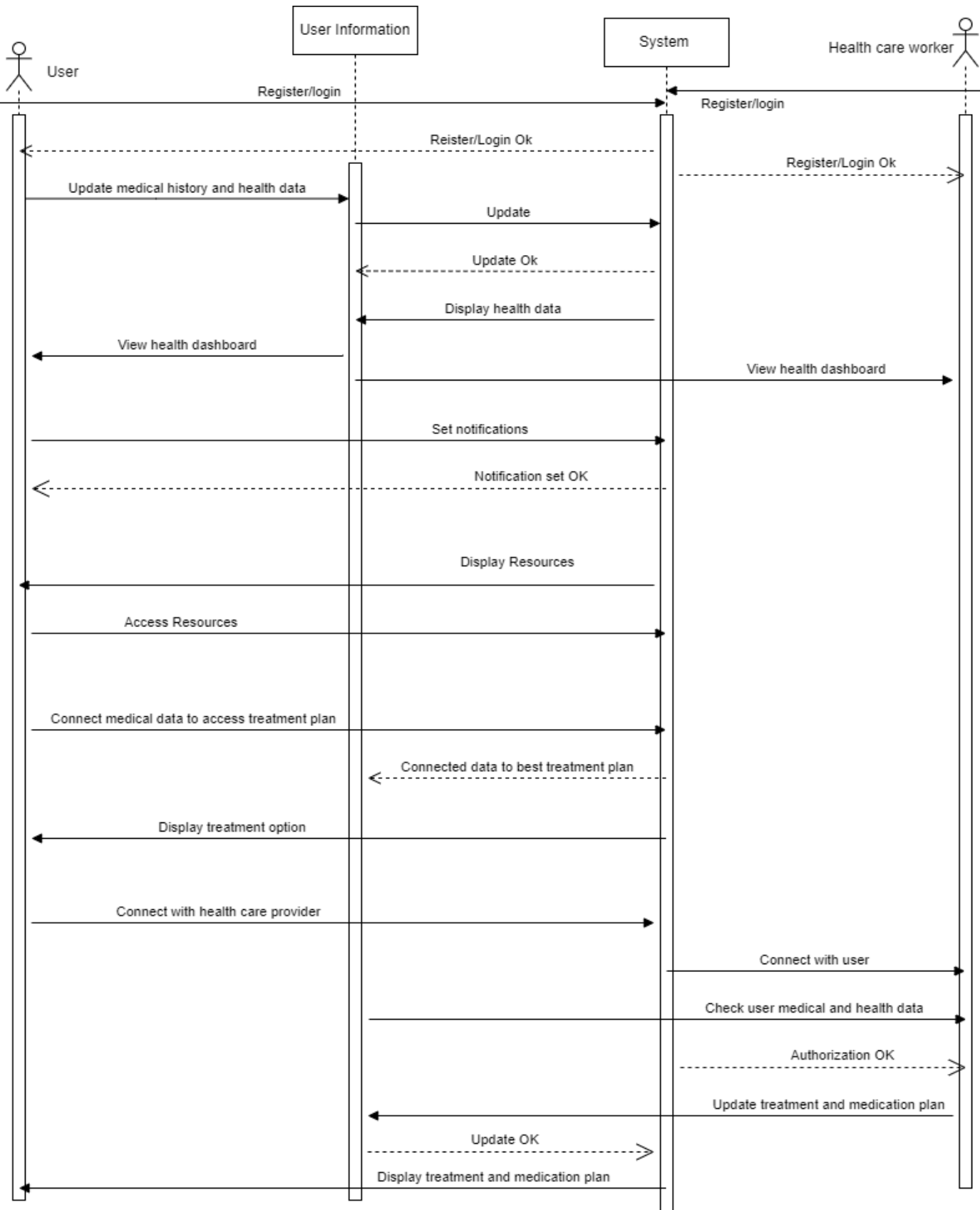
USE CASE DIAGRAM



DESCRIPTION

Actors	User (cancer patient), Health care provider
Description	<p>The user registers or login. The data must be updated by the user for the system to provide suitable recommendations. The user can also connect with a health care provider to better understand the recommendations provided by the system (Outcomes4me).</p> <p>The healthcare provider also registers or login. Once the details of the healthcare provider has been authorised they can view the user's data and communicate with the patient. They can also help in choosing the clinical trials, treatment option and medication.</p>
Data	User information and treatment summary
Response	Confirmation that the data has been updated into the system
Comments	The healthcare providers must have appropriate security permissions to access user data

SEQUENCE (Appendix C)



NEED FOR ENHANCED CAPABILITIES

Enhancing the analytical capabilities of the proposed application Outcomes4me will improve the effectiveness in supporting cancer patients. This can significantly increase the efficiency of personalised recommendations and better decision making tools. The users can also track what they eat while going through treatment as nutrients are crucial to any treatment.

Yuka is a mobile application designed to help consumers make informed decisions about the products they use, particularly food and cosmetics. The app allows users to scan the barcode of a product and instantly receive detailed information about its nutritional value, ingredients, and potential health impacts. Yuka rates products on a scale and provides recommendations for healthier alternatives when applicable

The two applications Outcomes4me and Yuka can integrate to provide a user experience not only during a specific period of time but until the user deems necessary.

Benefits

- Users undergoing cancer treatments require certain dietary recommendations. Yuka can offer insights into how each product is impacting their treatment and also after treatment care.
- Yuka's bar code scanning can help the users quickly judge the product before purchasing it.
- Immediate and easy to understand information about food products and grab user attention
- Data from both platforms can be used for research purposes which lead to new insights on whether there is any relationship between cancer and diet.
- A popular app like Yuka can make Outcomes4me stand out from other health app through unique value added services
- The integration will attract a broader user base, including those particularly interested in nutrition and holistic health.

ELICITATION PLAN

Users have expressed their desire for a cohesive experience whilst highlighting the inefficiencies and difficulties in managing their health and wellness data across the platforms. Healthcare professionals have proposed a remedy that involves both platform integration in order to enhance patient care and data management.

First Stage: Preparation (1 Week)

Define the scope of the project, Identify and distinguish the stakeholders, and then put together the requirements findings.

Commence Meeting : 1 Day

- Objective: Introduce the project team, outline the project scope, goals, and deliverables.

Identify Stakeholders : 2 - 3 Days

- Objective: Identify all stakeholders who may be affected by or have an interest in the analytical information system.

Prepare Documentation and Tools : 4 - 5 Days

- Objective: Put together all necessary documents (e.g., existing reports, current system documentation) and set up tools (e.g., requirement gathering templates, collaboration tools).

Second Stage: Elicitation (3 Weeks)

Gather detailed requirements from stakeholders using various elicitation techniques.

Interviews - Week 1

- Objective: Thorough understanding of individual stakeholder needs and challenges. Key stakeholders from different departments (e.g., marketing, product development, customer support) are going

Workshops - Week 2

- Objective: Organise collaborative discussions and brainstorming sessions to collect requirements and ensure common understanding.

Surveys - Week 3

- Objective: Gather quantitative data and broader input from stakeholders.

Document Analysis (In synergy with other activities)

- Objective: Understand the current system usage, workflows, and data handling.

Third Stage: Analysis (2 Weeks)

Analyse and prioritise the gathered requirements, resolve conflicts, and ensure completeness and feasibility.

Requirements Analysis - Week 1

- Objective: Categorise and prioritise requirements based on business impact and feasibility.

Conflict Resolution - Week 2

- Objective: Address conflicting requirements and ensure alignment among stakeholders.

Fourth Stage: Documentation (2 weeks)

Document the requirements in a clear and structured manner and validate them with stakeholders.

Identify requirement Specifications -Week 1.

Validation and Sign-off - Week 2

Fifth Stage: Review and Refinement(1 Week)

Review the process, gather feedback, and refine requirements if necessary.

Post-Mortem Analysis -1-2 Days

Final Refinements - 3-5 Days

FUNCTIONAL REQUIREMENTS POST INTEGRATION

User Authentication and Authorisation

- Single Sign-On (SSO): Users should be able to access Yuka and Outcome4me with a single set of Login credentials.
- User Roles and Permissions: Definition of user roles across both platforms to ensure appropriate access levels.

Data Integration and Exchange

- API Development: Develop APIs to ensure secure data exchange from Yuka and Outcome4me and vice-versa.
- Real Time Data Synchronisation: ensure real time sharing of user data between both platforms, including health records, treatment plans and product scans.

Unified User Experience

- Consistent UI Design: Design an intuitive user interface that combines the features from both applications. This makes it easier for users to navigate both features without feeling like they're between two different applications.
- Seamless Navigation: Enable seamless navigation between Yuka and Outcome4me functionalities within the unified interface.

Customised Recommendations

- Integrated Health and Product Data: Combine nutritional and cosmetic data from yuka and personalised health information from Outcome4me.
- Custom Health Recommendations: Provide personalised health tips based on the user's medical conditions.

Health Data Visualisation

- Comprehensive Dashboards: Design dashboards that show a combination of nutritional, cosmetic and health data for users to view and stay informed.
- Progress Tracking: Enable users to track their health progress and monitor the impact of their diet and product choices over time.

Patients and Educational Resources

- Centralised Resource Library: Provide a collection of educational materials that contains both nutritional information and disease management.
- Interactive tools: Provide tools such as quizzes to improve user engagement and learning.

NON FUNCTIONAL REQUIREMENTS POST INTEGRATION

Performance

- Scalability: Make sure the system can accommodate growing numbers of data and user volumes without affecting or compromising efficient performance.
- Response Time: Ensure quick response to user queries and data recovery in order to ensure a seamless user experience.

Security

- Data Encryption: Employ strong encryption methods in order to protect user data against unauthorised access and data breaches.
- Compliance: Ensure compliance with applicable Healthcare regulation (e.g., HIPAA, GDPR) to protect patient information.

Reliability

- Minimal Downtime: Ensure system functions smoothly with specified conditions that guarantees maximum uptime and minimal downtime.
- Error Handling: Implement robust error handling and recovery mechanisms to ensure system stability.

Utility

- User-Friendly Interface: Design an intuitive interface that is easy to navigate and also its features need to be made in such a way that it caters to all user groups (patients and healthcare providers)
- Accessibility: Ensure that the application is accessible to users with disabilities in accordance with the standards of the Web Content Accessibility Guidelines (WCAG).

Interoperability

- Standard Protocols: Implement standard protocols (e.g., HL7, FHIR) for data exchange in order to guarantee compatibility with other healthcare system
- Third-Party Integration: Facilitate seamless integration with other external health and wellness programs.

Manageability/Maintainability

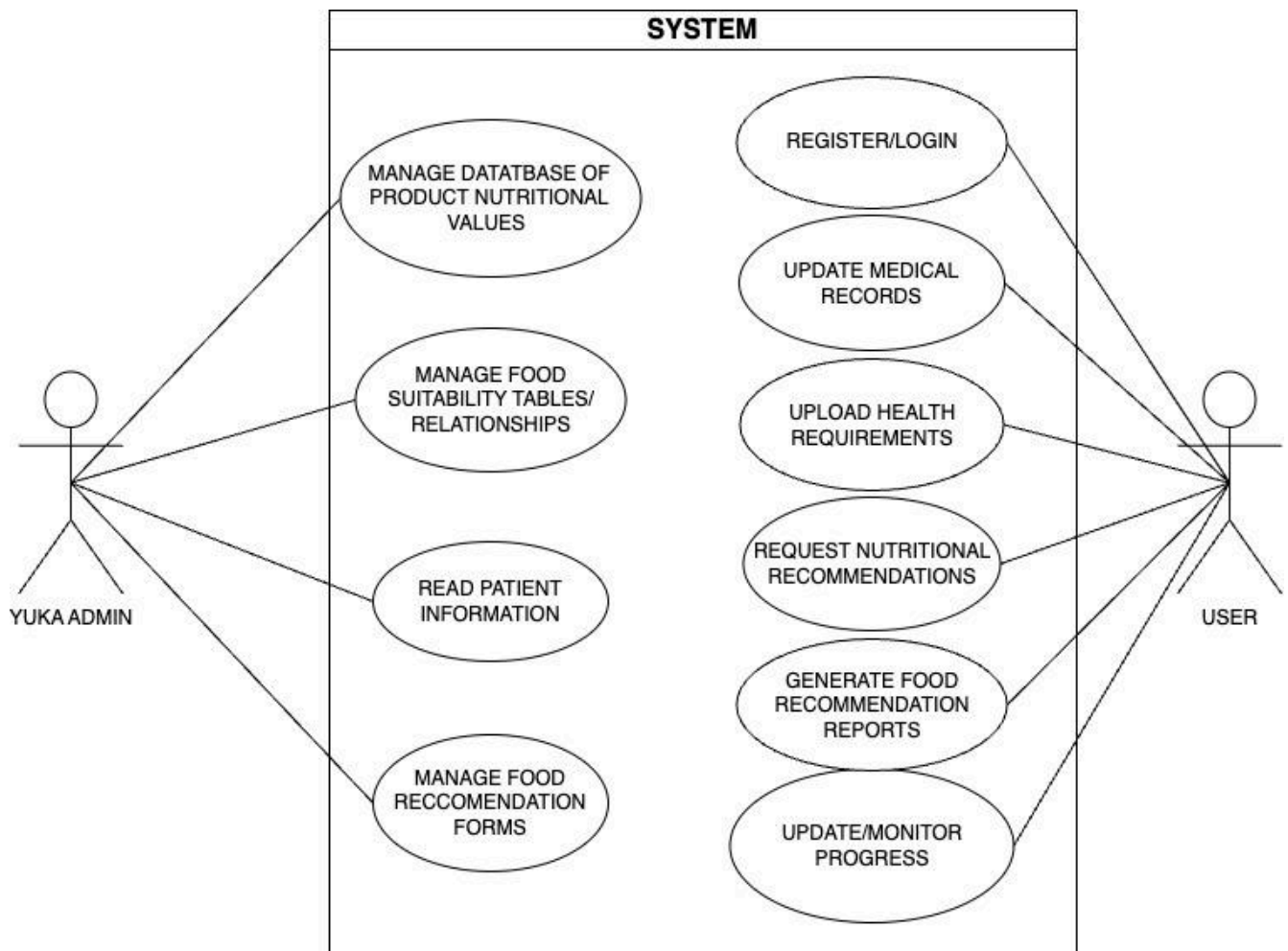
- **Modular Architecture:** Develop modular system designs that allows for straightforward maintenance and updates.
- **Documentation:** Ensure provision of thorough documentation for both Application Programming Interface (API) and the integrated system to support future development and maintenance.

High Data Quality

- **Accuracy:** Ensure precise and reliable data accuracy across both the integrated platforms.
- **Reliability:** Ensure data consistency between Yuka and Outcomes4Me by regularly synchronising and validating the information.

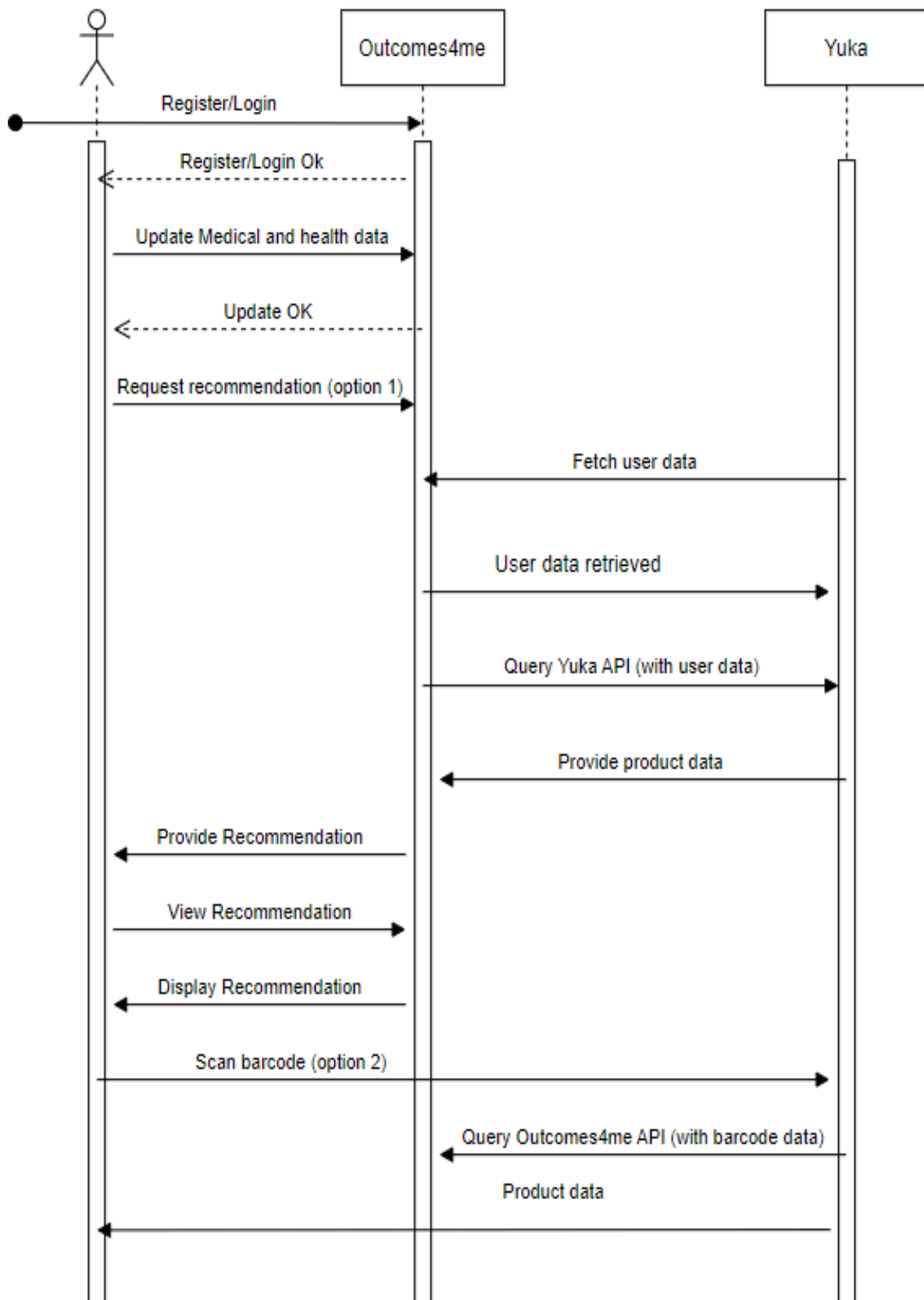
The integration of Yuka and Outcomes4me can provide a robust, secure and user-friendly system that improves health management and decision making for users.

USE CASE DIAGRAM



Actors	User (cancer patient), Yuka admin
Description	The user registers or login. The data must be updated by the user for the system to provide suitable recommendations. The user must also specify their dietary/nutritional specifications. The user requests nutritional recommendations based on their specifications. Reports are generated if necessary, and progress can also be monitored. The Yuka admin manages, updates and maintains a database of food information and their correlation with specific dietary requirements. The admin can also view the user's data to update the database with additional specifications or manage food recommendations.
Data	User information, nutrient data and food recommendations
Response	Tailored recommendations are provided

SEQUENCE DEPICTING THE INTEGRATION (Appendix D)



CONCLUSION

The combination of Yuka and Outcomes4Me presents a holistic approach to healthcare and well-being by merging the features. It empowers consumers to make healthier choices by providing users with accessible scanning facilities that allow them to obtain comprehensive information on the nutritional quality of food items as well as the safety of cosmetics such as the Yuka app does.

Outcomes4Me offers cancer patients customised evidence grounded advice such as treatment alternatives, clinical trials, symptom control which consequently aids them in facilitating an individual's medical process through their healthcare journeys.

Properly planned, developed and continuously improved, this integration will be successful establishing a new norm in personalised healthcare solutions.

Owing to the fusion of these two technologies, a 360-degree health management system can be developed for users to make conscious choices on their nutritional and personal care products and such disease management as cancer.

The merging of Yuka's repository and Outcomes4Me's customised medical advice with information ensures that users have more comprehensive support available at their fingertips.

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Appendix A

Components and their responsibilities

1. User Interface (UI)

- Web, Mobile apps- attractive and easy to understand for the user to interact with the application.

2. Application Services

- User management - Handles user registration, login, profile management.
- Treatment tracking- tracks treatment progress
- Notifications- manages alerts and reminders for patients
- Recommendations- provides personalised treatment options
- Educational content- contains blogs and latest news on cancer treatment and clinical trials
- Messaging - facilitates communication between patient and health care providers

3. Data Management

- User data -stores all user data which includes health records and medical history
- Health data -it has records of the treatment progress and symptom tracking
- Treatment data - logs all current treatment details, regularly tracks and records any treatment progress

4. Security

- Authentication- manages all user and healthcare providers authentication
- Authorisation - handles user permissions and access control
- Data encryption- ensuring all data is encrypted
- Auditing and logging- keep detailed logs for security monitoring.
- Compliance (HIPAA, GDPR)- ensuring the system complies with all regulations

5. Analytics and Reporting

- User analytics- tracks and analyses users pattern on the application
- Health outcome analysis- analyse user's data to provide the best medical recommendations

Appendix B

Entities

- User- cancer patients
- Health data - all the recorded data of the user
- Treatment Option- options provided by the system as the per the user's data
- Medical Records- the medical history and the treatment options chosen
- Healthcare provider- the oncologist who has can get in touch with the users

Relationship

- The user has to provide medical history and health data to start with the system.
- Once the data has been the system provides a personalised treatment option from which the user can choose.

The healthcare providers can have more than one patient and they also have access to user data. They can add or update medical or health data for which the user may not be aware of.

Appendix C

Actors:

1. Users (cancer patient)
2. Healthcare provider
3. System (Outcomes4me)
4. User Information

Description:

1.Registration/ Login-

- Users would require either to create a new account or login with an existing account which is then authorised by the system.
- Healthcare providers would require either to create a new account or login with an existing account which is validated by the system as the healthcare provider will have user data access.

2.Update data-

- Users will need to update any medical history and health data to the system which will be stored for analysis for viewing purposes by healthcare providers.

3. View health dashboard-

- Once the medical and health data has been updated the system presents it in the form of a health dashboard which can be viewed by the user and the healthcare providers.

4. Educational Resources-

- The system has a database of educational resources that can be viewed by the users and healthcare providers.
- The resources contain blogs and news of recent cancer treatments or clinical trials to help the users to make better treatment choices.

5. Set Notifications-

- The users can set up notifications for personalised recommendations, latest news, medication alarm and more.

6. Communication-

- Users can use the system to communicate with the healthcare providers for various recommendations.
- Healthcare providers can communicate with the users through the system and assist them with their possible treatment option with their given data.

Appendix D

Actors:

- User (cancer patient)
- Outcomes4me
- Yuka

Description:

1. Register/Login -

- Users would require either to create a new account or login with an existing account which is then authorised by Outcomes4me.
- Users would require either to create a new account or login with an existing account which is then authorised by Yuka.

2. Update data-

- Users should update data for better personalisation. Once data has been updated in Outcomes4me this can be analysed.
- Yuka has the necessary access for viewing user data.

3. Request recommendation(option 1)-

- One of the ways this integration works is- users can request for dietary recommendations from Outcomes4me. The data of the user can be used to display recommendations from Yuka.
- Outcomes4me query the Yuka API to fetch product data and provide recommendations to the user.

4. Scan barcode (option 2)-

- The other way the integration works is- the user scans the barcode of a product through the Yuka application. Yuka can provide a product score and alternatives if a low score has been valued.
- Yuka query the Outcomes4me API to fetch user details and provide the user with the best recommendation.

SQL Queries

DROP TABLE IF EXISTS user;

CREATE TABLE user

(userid char(10) PRIMARY KEY,

fname varchar(50),

lname varchar(50),

DOB date,

gender varchar(10)

);

INSERT INTO user VALUES('1','Joey', 'Tribbiani', '1990-05-09', 'Male');

INSERT INTO user VALUES('2','Monica','Geller', '1970-03-07', 'Female');

INSERT INTO user VALUES('3','Chandler', 'Bing', '1991-08-01', 'Male');

INSERT INTO user VALUES('4','Phoebe','Buffay', '1994-03-07', 'Female');

INSERT INTO user VALUES('5','Rachel', 'Green', '1995-10-07', 'Female');

DROP TABLE IF EXISTS healthcarePorvider;

CREATE TABLE healthcarePorvider

(providerId char(10) PRIMARY KEY,

fname varchar(50),

lname varchar(50),

userid REFERENCES user (userid),

specialisation varchar(100),

contactInfo int(10),

EIR_Code varchar(50)

);

**INSERT INTO healthcarePorvider
VALUES('A1','John','White','1','Radiation','1238764987','D18NT63');**

**INSERT INTO healthcarePorvider
VALUES('B2','Ann','Beech','2','Surgeon','4568801234','D1PN5');**

**INSERT INTO healthcarePorvider
VALUES('C3','David','Ford','3','Radiation','1978032490','D3HA3');**

**INSERT INTO healthcarePorvider
VALUES('D4','Mary','Howe','4','Radiation','0219234567','D14FG45');**

**INSERT INTO healthcarePorvider
VALUES('E5','Susan','Brand','5','Medical','1960060323','D2NT63');**

**INSERT INTO healthcarePorvider
VALUES('F6','Julie','Lee','6','Medical','1985061389','D4YN56');**

DROP TABLE IF EXISTS treatmentOption;

CREATE TABLE treatmentOption

(treatmentId char(10) PRIMARY KEY,

userid REFERENCES user (userid),

treatmentName varchar(50),

medication varchar(100)

);

INSERT INTO treatmentOption VALUES('T1','1','Chemotherapy','Thenk');

INSERT INTO treatmentOption VALUES('T2','2','Hyperthermia','aerh');

INSERT INTO treatmentOption VALUES('T3','3','Transplant','agr');

INSERT INTO treatmentOption VALUES('T4','4','Radiation','reg');

INSERT INTO treatmentOption VALUES('T5','5','PhotodynamicTherapy','aegr');

INSERT INTO treatmentOption VALUES('T6','6','Immunotherapy','ruhfh');

```

DROP TABLE IF EXISTS MedicalRecord;

CREATE TABLE MedicalRecord
(recordID char(10) PRIMARY KEY,
treatmentid REFERENCES treatmentOption (treatmentid),
userid REFERENCES user (userid),
diagnosis varchar(100)
);

INSERT INTO MedicalRecord VALUES('R1','T1','1','Thenk');
INSERT INTO MedicalRecord VALUES('R2','T2','2','aerh');
INSERT INTO MedicalRecord VALUES('R3','T3','3','agr');
INSERT INTO MedicalRecord VALUES('R4','T4','4','reg');
INSERT INTO MedicalRecord VALUES('R5','T2','5','aegr');
INSERT INTO MedicalRecord VALUES('R6','T1','6','ruh');

```

```

DROP TABLE IF EXISTS HealthData;

CREATE TABLE HealthData
(healthID char(10) PRIMARY KEY,
userid REFERENCES user (userid),
metric varchar(100),
value varchar(50),
recorded_at Timestamp,
symptoms text
);

```

**INSERT INTO HealthData VALUES('H1','1','heartrate','100','2024-07-17
10:05:00','good');**

**INSERT INTO HealthData VALUES('H2','2','cholesterol','1.2','2024-07-17
10:00:00','stable');**

**INSERT INTO HealthData VALUES('H3','3','bloodpressure','90/60','2024-07-17
10:10:00','stable');**

**INSERT INTO HealthData VALUES('H4','4','heartrate','60','2024-07-17
10:00:00','palpitations');**

**INSERT INTO HealthData VALUES('H5','5','heartrate','130','2024-07-17
10:05:00','cold sweats');**

**INSERT INTO HealthData VALUES('H6','6','cholesterol','1','2024-07-17
10:00:00','stable');**

DROP TABLE IF EXISTS product;

CREATE TABLE product

(productId char(10) PRIMARY KEY,

name varchar(100),

barcode varchar(50),

nutritional_info text,

ratings int(100)

);

**INSERT INTO product VALUES('P1','Organic Almond Milk', '123456789012',
'Calories: 30, Fat: 2.5g, Sugars: 0g', '90');**

**INSERT INTO product VALUES('P2','Whole Wheat Bread', '234567890123', 'Calories:
70, Fat: 1g, Sugars: 1g', '85');**

**INSERT INTO product VALUES('P3','Greek Yogurt', '345678901234', 'Calories: 100,
Fat: 0g, Sugars: 10g', '80');**

**INSERT INTO product VALUES('P4','Granola Bar', '456789012345', 'Calories: 150,
Fat: 6g, Sugars: 12g', '75');**

**INSERT INTO product VALUES('P5','Dark Chocolate', '567890123456', 'Calories: 180,
Fat: 10g, Sugars: 8g', '95');**

**INSERT INTO product VALUES('P6','Low Fat Milk', '475649879056','Calories:200,
Fat: 5g, Sugar:0g', '90');**

```
DROP TABLE IF EXISTS userScans;  
CREATE TABLE userScans  
(scanId char(10) PRIMARY KEY,  
userid REFERENCES user (userid),  
productid REFERENCES product (productid),  
scanTime Timestamp  
);  
INSERT INTO userScans VALUES('1', '101', '201', '2023-07-22 14:35:00');  
INSERT INTO userScans VALUES('2', '102', '202', '2023-07-22 15:00:00');  
INSERT INTO userScans VALUES('3', '103', '203', '2023-07-22 15:30:00');  
INSERT INTO userScans VALUES('4', '104', '204', '2023-07-22 16:00:00');  
INSERT INTO userScans VALUES('5', '105', '205', '2023-07-22 16:30:00');  
INSERT INTO userScans VALUES('6', '106', '206', '2023-07-22 17:00:00');
```