Software Requirement Specification

1. PROJECT NAME:

Health Information Network (HIN)

2. PROJECT IDEA:

The Health Information Network (HIN) is a web-based application designed to manage health records nationwide. It serves patients, healthcare providers, and government regulators by enabling efficient access to health records while ensuring compliance with HIPAA standards. The system provides personalized views for each stakeholder and features robust authentication and privacy measures.

3. PROJECT DRIVERS:

a. The Goal of the Project:

- Create a secure, nationwide platform for managing health records.
- Improve patient care by providing real-time access to medical records and appointment scheduling.
- Enhance regulatory oversight and compliance with HIPAA standards.

b. Client, Stakeholders:

- Clients: National health authorities, healthcare organizations.
- **Stakeholders:** Patients, healthcare providers, insurance companies, system administrators, government regulators, and caregivers.

c. Users of the Project:

- **Primary Users:** Patients, healthcare providers, government regulators.
- **Secondary Users:** Insurance companies and caregivers.

4. PROJECT CONSTRAINTS:

a. Mandated Constraints:

- The system must follow HIPAA standards to ensure data privacy.
- Implement a scalable infrastructure to accommodate nationwide usage.

b. Naming Conventions and Definitions:

- Patient: A user receiving healthcare services.
- **Health Provider:** A doctor or a nurse.
- **HIPAA Compliance:** Ensures patient health data confidentiality.
- Caregivers: Designated individuals notified during emergencies.

c. Relevant Facts and Assumptions:

- All users will have internet access.
- Patients may belong to either insured or uninsured categories.
- The system assumes data provided by patients is accurate.

5. FUNCTIONAL REQUIREMENTS:

a. The Scope of the Work:

- Current Situation: The exchange of health records is fragmented, leading to inefficiencies.
- Context of the Work: HIN will centralize record management, reducing delays and errors.
- Work Partitioning: Separate modules for patient account management, appointment scheduling, medical record handling, and insurance processing.

b. The Scope of the Product:

The system boundary includes features such as user registration, record management, appointment scheduling, billing, and report generation. Actors include patients, health providers, insurance companies, government regulators, system administrators, and caregivers.

c. Atomic Functional Requirements Shell (Volere Snow Cards):

Generate Patient Account

Requirement #: 01 Requirement Type: Functional Event/BUC/PUC #: 48

Description: Allow a patient to create a new account with secure login and profile informa-

tion.

Rationale: Enables access to the health information system for new users.

Originator: Patient Feedback

Fit Criterion: Account creation should be completed in under 3 minutes.

Customer Satisfaction: 5 Customer Dissatisfaction: 1

Dependencies: Authentication system Conflicts: None

Supporting Materials: Patient information

Priority: 10

History: Created November 29, 2024 —Added after system requirements review

Update Patient Profile

Requirement #: 02 Requirement Type: Functional Event/BUC/PUC #: 13, 44, 45,

46

Description: Allow a patient to update their personal and medical information.

Rationale: Ensures patient details are kept up to date.

Originator: Patient Feedback

Fit Criterion: Profile update should be completed within 2 minutes.

Customer Satisfaction: 5 Customer Dissatisfaction: 2

Dependencies: None Conflicts: None

Supporting Materials: Patient details

Priority: 10

History: Created November 29, 2024 —Updated after feedback

Delete Patient Profile

Requirement #: 03 Requirement Type: Functional Event/BUC/PUC #: None

Description: Allow a patient to delete their account with the option for data removal or

deactivation.

Rationale: Ensures privacy and compliance with data protection laws.

Originator: Patient Feedback

Fit Criterion: Account deletion should be processed within 5 minutes.

Customer Satisfaction: 5 Customer Dissatisfaction: 3

Dependencies: Authentication system Conflicts: None

Supporting Materials: Patient data

Priority: 8

History: Created November 29, 2024 —Initial feature based on user feedback

Schedule Appointment

Requirement #: 04 Requirement Type: Functional Event/BUC/PUC #: 34

Description: Allow patients to schedule appointments with healthcare providers.

Rationale: Ensures appointments are made efficiently, considering availability.

Originator: Patient Feedback

Fit Criterion: Appointment should be scheduled within 2 minutes with availability check.

Customer Satisfaction: 5 Customer Dissatisfaction: 2

Dependencies: Check provider availability Conflicts: None

Supporting Materials: Patient and provider schedules

Priority: 10

History: Created November 29, 2024 —Feature updated based on user feedback

View Appointments

Requirement #: 05 Requirement Type: Functional Event/BUC/PUC #: None

Description: Allow patients to view scheduled appointments.

Rationale: Enables easy access to appointment information.

Originator: Patient Feedback

Fit Criterion: Appointment data should be available within 1 second of request.

Customer Satisfaction: 5 Customer Dissatisfaction: 1

Dependencies: Appointment system Conflicts: None

Supporting Materials: Appointment data

Priority: 9

History: Created November 29, 2024 —Updated with new user interface

Cancel Appointment

Requirement #: 06 Requirement Type: Functional Event/BUC/PUC #: 35

Description: Allow patients to cancel appointments and notify healthcare providers.

Rationale: Improves appointment management and ensures proper notification.

Originator: Patient Feedback

Fit Criterion: Cancellation should be processed within 2 minutes and notify the provider

immediately.

Customer Satisfaction: 5 Customer Dissatisfaction: 2

Dependencies: **Notify Provider** Conflicts: **None**

Supporting Materials: Patient and provider data

Priority: 9

History: Created November 29, 2024 —Enhanced after system testing

Reschedule Appointment

Requirement #: 07 Requirement Type: Functional Event/BUC/PUC #: 34

Description: Allow patients to reschedule appointments while checking provider availability.

Rationale: Ensures flexibility and efficient use of available slots.

Originator: Patient Feedback

Fit Criterion: Rescheduling should be completed within 2 minutes.

Customer Satisfaction: 5 Customer Dissatisfaction: 3

Dependencies: Check provider availability Conflicts: None

Supporting Materials: Patient and provider data

Priority: 9

History: Created November 29, 2024 —New feature after stakeholder discussion

Add Medical Record

Requirement #: 08 Requirement Type: Functional Event/BUC/PUC #: None

Description: Allow healthcare providers to add medical records for patients.

Rationale: Ensures up-to-date medical records for each patient.

Originator: Healthcare Providers

Fit Criterion: Record should be added successfully in under 2 minutes.

Customer Satisfaction: 5 Customer Dissatisfaction: 1

Dependencies: None Conflicts: None

Supporting Materials: Patient medical records

Priority: 10

History: Created November 29, 2024 —Initial requirement after system testing

View Medical History

Requirement #: 09 Requirement Type: Functional Event/BUC/PUC #: 36

Description: Allow patients and providers to view patient medical history, with filter options.

Rationale: Important for providing a comprehensive understanding of patient history.

Originator: Healthcare Providers, Patients

Fit Criterion: History should be filtered and presented within 3 seconds.

Customer Satisfaction: 5 Customer Dissatisfaction: 2

Dependencies: Filter by date, Filter by type Conflicts: None

Supporting Materials: Medical history records

Priority: 10

History: Created November 29, 2024 —New feature added based on user feedback

Update Medical Record

Requirement #: 10 Requirement Type: Functional Event/BUC/PUC #: 37

Description: Allow healthcare providers to update medical records, ensuring data accuracy.

Rationale: Essential for maintaining accurate and current medical records.

Originator: Healthcare Providers

Fit Criterion: Record update should be completed successfully within 3 minutes.

Customer Satisfaction: 5 Customer Dissatisfaction: 2

Dependencies: Check for data accuracy Conflicts: None

Supporting Materials: Medical record data

Priority: 10

History: Created November 29, 2024 —Enhanced after compliance review

Delete Medical Record

Requirement #: 11 Requirement Type: Functional Event/BUC/PUC #: None

Description: Allow authorized personnel to delete medical records if required.

Rationale: Ensures compliance with data protection and privacy laws.

Originator: Compliance Team

Fit Criterion: Deletion should be processed within 3 minutes.

Customer Satisfaction: 5 3

Dependencies: Authorization system Conflicts: None

Supporting Materials: Medical record data

Priority: 8

History: Created November 29, 2024 —New feature after compliance review

Verify Insurance

Requirement #: 12 Requirement Type: Functional Event/BUC/PUC #: None

Description: Verify patient insurance details for eligibility and coverage.

Rationale: Ensures accurate billing and coverage determination.

Originator: Systems Administrator

Fit Criterion: Insurance verification should be completed in under 3 minutes.

Customer Satisfaction: 5 Customer Dissatisfaction: 2

Dependencies: Insurance database Conflicts: None

Supporting Materials: Insurance data

Priority: 10

History: Created November 29, 2024 —Added based on feedback from billing team

Update Insurance Information

Requirement #: 13 Requirement Type: Functional Event/BUC/PUC #: None

Description: Allow patients or administrators to update insurance details.

Rationale: Ensures accurate and current insurance information.

Originator: Patient Feedback

Fit Criterion: Insurance updates should be completed within 2 minutes.

Customer Satisfaction: 5 Customer Dissatisfaction: 2

Dependencies: Insurance verification process Conflicts: None

Supporting Materials: Insurance information

Priority: 9

History: Created November 29, 2024 —Enhanced after user feedback

Process Insurance Claims

Requirement #: 14 Requirement Type: Functional Event/BUC/PUC #: 38

Description: Process insurance claims, including checking patient insurance eligibility.

Rationale: Ensures streamlined claims processing and minimizes errors.

Originator: Insurance Specialist

Fit Criterion: Claims should be processed within 5 minutes with eligibility checks.

Customer Satisfaction: 5 Customer Dissatisfaction: 3

Dependencies: Insurance eligibility check Conflicts: None

Supporting Materials: Insurance claims data

Priority: 10

History: Created November 29, 2024 —Added during system enhancement phase

View Insurance Details

Requirement #: 15 Requirement Type: Functional Event/BUC/PUC #: None

Description: Allow patients and administrators to view detailed insurance information.

Rationale: Provides transparency and aids in decision-making.

Originator: Patient Feedback

Fit Criterion: Insurance details should be displayed within 2 seconds of request.

Customer Satisfaction: 5 Customer Dissatisfaction: 1

Dependencies: None Conflicts: None

Supporting Materials: Insurance data

Priority: 9

History: Created November 29, 2024 —Enhanced after stakeholder review

Add Emergency Contact

Requirement #: 16 Requirement Type: Functional Event/BUC/PUC #: None

Description: Allow patients to add emergency contact information.

Rationale: Ensures emergency preparedness and proper notifications.

Originator: Patient Feedback

Fit Criterion: Emergency contact should be added within 1 minute.

Customer Satisfaction: 5 Customer Dissatisfaction: 1

Dependencies: None Conflicts: None

Supporting Materials: Contact information

Priority: 8

History: Created November 29, 2024 —Basic feature implemented in early phase

Notify Emergency Contact

Requirement #: 17 Requirement Type: Functional Event/BUC/PUC #: 39

Description: Notify emergency contact in case of an emergency event.

Rationale: Ensures timely communication during emergencies.

Originator: System Administrators

Fit Criterion: Notifications should be triggered within 5 seconds of the emergency event.

Customer Satisfaction: 5 Customer Dissatisfaction: 2

Dependencies: Trigger on emergency event Conflicts: None

Supporting Materials: Contact and event data

Priority: 9

History: Created November 29, 2024 —New feature for emergency management

View Notifications

Requirement #: 19 Requirement Type: Functional Event/BUC/PUC #: None

Description: Allow users to view all notifications regarding appointments, billing, and emergencies.

Rationale: Centralizes communication and ensures important messages are not missed.

Originator: Patients, Caregivers

Fit Criterion: Notifications should be displayed within 1 second of request.

Customer Satisfaction: 5 Customer Dissatisfaction: 1

Dependencies: Notification system Conflicts: None

Supporting Materials: Notification data

Priority: 7

History: Created November 29, 2024 —Enhanced after user interface testing

Generate Prescription

Requirement #: 20 Requirement Type: Functional Event/BUC/PUC #: 40

Description: Allow healthcare providers to generate prescriptions, including authorization

for certain medications.

Rationale: Ensures efficient prescription generation and compliance.

Originator: **Healthcare Providers**

Fit Criterion: Prescription should be generated within 2 minutes, including authorization.

Customer Satisfaction: 5 Customer Dissatisfaction: 2

Dependencies: Prescription authorization Conflicts: None

Supporting Materials: Prescription data

Priority: 10

History: Created November 29, 2024 —Feature added during requirement analysis phase

View Prescription History

Requirement #: 21 Requirement Type: Functional Event/BUC/PUC #: None

Description: Allow patients to view their prescription history.

Rationale: Provides transparency and helps in managing medications.

Originator: Health Providers, Patients

Fit Criterion: Prescription history should be available within 2 seconds of request.

Customer Satisfaction: 5 Customer Dissatisfaction: 1

Dependencies: None Conflicts: None

Supporting Materials: Prescription records

Priority: 9

History: Created November 29, 2024 —Added during user requirement gathering

Renew Prescription

Requirement #: 22 Requirement Type: Functional Event/BUC/PUC #: None

Description: Allow patients to renew existing prescriptions.

Rationale: Simplifies the process of obtaining ongoing medications.

Originator: Patient Feedback

Fit Criterion: Prescription renewal should be processed within 2 minutes.

Customer Satisfaction: 5 Customer Dissatisfaction: 2

Dependencies: **Prescription records** Conflicts: **None**

Supporting Materials: Prescription data

Priority: 9

History: Created November 29, 2024 —Added during feature enhancement phase

Update Prescription

Requirement #: 23 Requirement Type: Functional Event/BUC/PUC #: None

Description: Allow healthcare providers to update existing prescriptions.

Rationale: Ensures accurate and up-to-date medication information.

Originator: Healthcare Providers

Fit Criterion: Prescription updates should take less than 2 minutes.

Customer Satisfaction: 5 Customer Dissatisfaction: 2

Dependencies: **Prescription records**Conflicts: **None**

Supporting Materials: Prescription data

Priority: 8

History: Created November 29, 2024 —Added based on provider feedback

Generate Health Reports

Requirement #: 24 Requirement Type: Functional Event/BUC/PUC #: None

Description: Generate detailed health reports for patients.

Rationale: Provides insights into the patient's health status over time.

Originator: Health Providers

Fit Criterion: Reports should be generated within 5 seconds of request.

Customer Satisfaction: 5 Customer Dissatisfaction: 1

Dependencies: Medical records Conflicts: None

Supporting Materials: Medical and health data

Priority: 9

History: Created November 29, 2024 —Added during requirements phase

Generate Compliance Reports

Requirement #: 25 Requirement Type: Functional Event/BUC/PUC #: 41

Description: Generate reports to ensure compliance with patient privacy and legal requirements

Rationale: Ensures the system adheres to legal and ethical standards.

Originator: Government Regulator

Fit Criterion: Compliance reports should be generated within 10 seconds.

Customer Satisfaction: 5 Customer Dissatisfaction: 3

Dependencies: Privacy data management syst@mflicts: None

Supporting Materials: Privacy and audit data

Priority: 10

History: Created November 29, 2024 —Added after legal review

View Usage Analytics

Requirement #: 26 Requirement Type: Functional Event/BUC/PUC #: None

Description: Allow administrators to view system usage analytics.

Rationale: Helps identify trends and optimize the system's performance.

Originator: Government Regulator

Fit Criterion: Analytics data should be displayed within 5 seconds of request.

Customer Satisfaction: 5 Customer Dissatisfaction: 2

Dependencies: Usage data Conflicts: None

Supporting Materials: Analytics data

Priority: 7

History: Created November 29, 2024 —Added during system optimization phase

Generate Bill

Requirement #: 27 Requirement Type: Functional Event/BUC/PUC #: 42

Description: Generate patient bills, including service fees and insurance deductions.

Rationale: Simplifies the billing process for patients and administrators.

Originator: Billing Specialist

Fit Criterion: Bills should be generated within 3 seconds.

Customer Satisfaction: 5 Customer Dissatisfaction: 2

Dependencies: Billing and insurance data Conflicts: None

Supporting Materials: Billing data

Priority: 10

History: Created November 29, 2024 —Enhanced during feature refinement phase

Process Payment

Requirement #: 28 Requirement Type: Functional Event/BUC/PUC #: 43

Description: Process payments and verify payment methods.

Rationale: Ensures smooth and secure transactions.

Originator: Billing Team

Fit Criterion: Payments should be processed within 2 seconds.

Customer Satisfaction: 5 Customer Dissatisfaction: 3

Dependencies: Payment gateway Conflicts: None

Supporting Materials: Payment data

Priority: 10

History: Created November 29, 2024 —Added during billing integration phase

View Billing History

Requirement #: 29 Requirement Type: Functional Event/BUC/PUC #: None

Description: Allow patients to view their billing history.

Rationale: Provides transparency in financial transactions.

Originator: Patient Feedback

Fit Criterion: Billing history should be displayed within 3 seconds.

Customer Satisfaction: 5 Customer Dissatisfaction: 1

Dependencies: Billing database Conflicts: None

Supporting Materials: Billing records

Priority: 9

History: Created November 29, 2024 —Added during requirement gathering phase

Update Billing Information

Requirement #: 030 Requirement Type: Functional Event/BUC/PUC #: None

Description: Allow patients to update their billing information.

Rationale: Ensures accurate and up-to-date billing data.

Originator: Patient Feedback

Fit Criterion: Billing updates should be completed within 2 minutes.

Customer Satisfaction: 5 Customer Dissatisfaction: 1

Dependencies: None Conflicts: None

Supporting Materials: Billing data

Priority: 8

History: Created November 29, 2024 —Added during feature enhancement phase

Register New User

Requirement #: 031 Requirement Type: Functional Event/BUC/PUC #: None

Description: Allow new users to register for system access.

Rationale: Ensures the system is accessible to new users.

Originator: System Administrator

Fit Criterion: Registration process should be completed within 2 minutes.

Customer Satisfaction: 5 Customer Dissatisfaction: 1

Dependencies: User management system Conflicts: None

Supporting Materials: User data

Priority: 9

History: Created November 29, 2024 —Basic feature implemented in early phase

Change Password

Requirement #: 032 Requirement Type: Functional Event/BUC/PUC #: None

Description: Allow users to change their passwords.

Rationale: Ensures account security and compliance.

Originator: Patient

Fit Criterion: Password change should be completed within 1 minute.

Customer Satisfaction: 5 Customer Dissatisfaction: 1

Dependencies: Authentication system Conflicts: None

Supporting Materials: Password data

Priority: 8

History: Created November 29, 2024 —Enhanced after security review

Assign Roles and Permissions

Requirement #: 033 Requirement Type: Functional Event/BUC/PUC #: None

Description: Allow administrators to assign roles and permissions to users.

Rationale: Ensures proper access control and security.

Originator: System Administrator

Fit Criterion: Roles and permissions should be assigned within 1 minute.

Customer Satisfaction: 5 Customer Dissatisfaction: 1

Dependencies: Access control system Conflicts: None

Supporting Materials: Role and permission data

Priority: 9

History: Created November 29, 2024 —Added during security enhancement phase

Check provider availability

Requirement #: **34** Requirement Type: **Functional** Event/BUC/PUC #: **None**

Description: Check the availability of healthcare providers based on date, time, and type of

illness.

Rationale: Ensures patients are assigned providers with availability matching their require-

ments

Originator: System Administrator

Fit Criterion: Availability information must be accurate and up-to-date.

Customer Satisfaction: 5 Customer Dissatisfaction: 2

Dependencies: **Provider database** Conflicts: **None**

Supporting Materials: Provider schedules

Priority: 10

History: Created November 29, 2024 —Initial version created in November 2024

Notify Provider

Requirement #: 35 Requirement Type: Functional Event/BUC/PUC #: None

Description: Notify the assigned provider of new or updated patient appointments via email

or SMS.

Rationale: Keeps providers informed about their upcoming schedules.

Originator: System Administrator

Fit Criterion: Notifications must be sent within 5 minutes of changes.

Customer Satisfaction: 4 Customer Dissatisfaction: 1

Dependencies: Messaging system Conflicts: None

Supporting Materials: Contact details of providers

Priority: 9

Filter by date, Filter by type

Requirement #: **36** Requirement Type: **Functional** Event/BUC/PUC #: **None**

Description: Allow users to filter medical history by date or type of incident for better

navigation.

Rationale: Simplifies retrieval of specific medical history records.

Originator: Patient Feedback

Fit Criterion: Filters must return results within 2 seconds for queries under 1,000 records.

Customer Satisfaction: 4 Customer Dissatisfaction: 2

Dependencies: Database of records Conflicts: None

Supporting Materials: Medical history database

Priority: 7

History: Created November 29, 2024 —Initial version created in November 2024

Check for data accuracy

Requirement #: 37 Requirement Type: Functional Event/BUC/PUC #: None

Description: Ensure all medical record updates are validated for completeness and accuracy.

Rationale: Prevents incorrect or incomplete records from being stored in the system.

Originator: **Health Providers**

Fit Criterion: All records must pass predefined validation checks before saving.

Customer Satisfaction: 5 Customer Dissatisfaction: 1

Dependencies: Data validation rules Conflicts: None

Supporting Materials: Validation criteria documentation

Priority: 10

Check patient insurance eligibility

Requirement #: 38 Requirement Type: Functional Event/BUC/PUC #: None

Description: Verify if a patient is eligible for insurance coverage before processing claims.

Rationale: Avoids errors in claim processing and reduces disputes.

Originator: Insurance Specialist

Fit Criterion: Eligibility must be verified within 3 seconds of submission.

Customer Satisfaction: 5 Customer Dissatisfaction: 2

Dependencies: Insurance company API Conflicts: None

Supporting Materials: Patient insurance details

Priority: 10

History: Created November 29, 2024 —Initial version created in November 2024

Trigger on emergency event

Requirement #: 39 Requirement Type: Functional Event/BUC/PUC #: None

Description: Notify emergency contacts immediately when an emergency condition is de-

Rationale: Ensures caregivers are informed promptly during critical events.

Originator: Systems Administrator

Fit Criterion: Notifications must be sent within 1 minute of the event detection.

Customer Satisfaction: 5 Customer Dissatisfaction: 1

Dependencies: Emergency detection system Conflicts: None

Supporting Materials: Emergency contact list

Priority: 10

Prescription authorization (for certain meds)

Requirement #: 40 Requirement Type: Functional Event/BUC/PUC #: None

Description: Require additional authorization for prescriptions of restricted medications.

Rationale: Ensures compliance with regulatory requirements for controlled substances.

Originator: Systems Administrator

Fit Criterion: Authorization must be granted or denied within 2 minutes.

Customer Satisfaction: 5 Customer Dissatisfaction: 3

Dependencies: Authorization database Conflicts: None

Supporting Materials: Regulatory guidelines

Priority: 9

History: Created November 29, 2024 —Initial version created in November 2024

Compile patient privacy data

Requirement #: 41 Requirement Type: Functional Event/BUC/PUC #: None

Description: Compile patient privacy compliance data for regulators to review.

Rationale: Ensures system compliance with HIPAA and other regulations.

Originator: Government Regulator

Fit Criterion: Reports must be generated within 10 minutes for up to 10,000 records.

Customer Satisfaction: 5 Customer Dissatisfaction: 1

Dependencies: Privacy tracking logs Conflicts: None

Supporting Materials: Privacy regulations

Priority: 10

Calculate service fees, insurance deductions

Requirement #: 42 Requirement Type: Functional Event/BUC/PUC #: None

Description: Automatically calculate service fees and deduct applicable insurance coverage.

Rationale: Ensures accurate billing for patients and providers.

Originator: Finance Team

Fit Criterion: Calculations must be accurate to 2 decimal places.

Customer Satisfaction: 4 Customer Dissatisfaction: 2

Dependencies: Insurance database Conflicts: None

Supporting Materials: Billing rules

Priority: 9

History: Created November 29, 2024 —Initial version created in November 2024

Verify payment method

Requirement #: 43 Requirement Type: Functional Event/BUC/PUC #: None

Description: Ensure the validity of payment methods (e.g., credit card, bank transfer).

Rationale: Reduces payment errors and ensures financial compliance.

Originator: Payment Team

Fit Criterion: Verification must be completed within 2 seconds.

Customer Satisfaction: 5 Customer Dissatisfaction: 1

Dependencies: Payment gateway API Conflicts: None

Supporting Materials: Payment processor

Priority: 8

Update Caregiver Contact Information

Requirement #: 44 Requirement Type: Functional Event/BUC/PUC #: None

Description: Allow caregivers to update their contact details in the system.

Rationale: Ensures accurate and up-to-date caregiver contact information.

Originator: System Improvement Feedback

Fit Criterion: Changes should be reflected immediately after submission.

Customer Satisfaction: 4 Customer Dissatisfaction: 2

Dependencies: Caregiver database Conflicts: None

Supporting Materials: Contact database

Priority: 7

History: Created November 29, 2024 —Added support for email updates.

Delete Insurance Information

Requirement #: 45 Requirement Type: Functional Event/BUC/PUC #: None

Description: Enable the deletion of outdated or invalid insurance records.

Rationale: Prevents confusion and errors due to outdated insurance information.

Originator: Patient Request

Fit Criterion: Data deletion should be processed within 2 seconds.

Customer Satisfaction: 5 Customer Dissatisfaction: 1

Dependencies: Insurance database Conflicts: High, requires validation

Supporting Materials: Insurance database records

Priority: 7

History: Created November 29, 2024 —Recently added audit trail for deleted records.

Update Payment Information

Requirement #: 46 Requirement Type: Functional Event/BUC/PUC #: None

Description: Allow patients to update their stored payment methods.

Rationale: Reduces failed payment incidents.

Originator: Payment Gateway Feedback

Fit Criterion: Updates should be processed securely within 3 seconds.

Customer Satisfaction: 5 Customer Dissatisfaction: 1

Dependencies: Payment processor Conflicts: High, requires encryption

Supporting Materials: Payment records

Priority: 8

History: Created November 29, 2024 —Integrated with new security measures.

View Patient Profile

Requirement #: 47 Requirement Type: Functional Event/BUC/PUC #: 15

Description: Allow authorized personnel to view detailed patient profiles.

Rationale: Facilitates efficient decision-making and personalized care.

Originator: Medical Staff Feedback

Fit Criterion: Profile information should load within 1 second.

Customer Satisfaction: 5 Customer Dissatisfaction: 1

Dependencies: Patient database Conflicts: Medium, requires authentication

Supporting Materials: Patient records

Priority: 9

History: Created November 29, 2024 —Enhanced with recent UI updates and additional

fields for medical history.

Register Insurance Information

Requirement #: 48 Requirement Type: Functional Event/BUC/PUC #: None

Description: Allow patients to add new insurance information to their profiles.

Rationale: Ensures all necessary insurance details are available for services.

Originator: Registration Process Feedback

Fit Criterion: New entries should be validated and saved within 3 seconds.

Customer Satisfaction: 5 Customer Dissatisfaction: 1

Dependencies: Insurance database Conflicts: Medium, validation required

Supporting Materials: Insurance forms

Priority: 9

 ${\bf History:} \ {\bf Created} \ {\bf November} \ {\bf 29,} \ {\bf 2024} \ {\bf --Recently} \ {\bf added} \ {\bf support} \ {\bf for} \ {\bf additional} \ {\bf insurance}$

types.