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Revision / Document History

Ver.	Date	Changed by	Modifications
1.0	29-Jul-2023	Bakkesh S Subedhar	Initial Development design.

List of Abbreviations

DFD	Data Flow Diagram
E-R	Entity Relationship
RS	Requirement Specification
ATDS	Admit Transfer Discharge

Table of Contents

1.	INTRODUCTION	3
1.1	Purpose	3
1.2	Scope	3
1.3	Definitions, Acronyms and Abbreviations	3
1.4	References	3
1.5	Coordinators	3
2.	SOFTWARE REQUIREMENTS	3
2.1	Operational Requirements	3
2.2	Functional Requirements	4
2.3	User Interface Requirements	7
2.4	External Interface Requirements	18

3. PROJECT EXECUTION RELATED REQUIREMENTS	18
3.1 Development Environment	18
Technologies to be used for development of the Application:	18
3.2 Design requirements	18
3.3 Coding requirements	18
3.4 Error handling requirements	18
3.5 Resource Requirements	18
Technologies to be used for development of the Application:	18
3.6 Risk management	18
3.7 Training Requirements	18
4. TESTING REQUIREMENTS	18
5. QUALITY ASSURANCE ACTIVITIES	19
6. SOFTWARE ACCEPTANCE CRITERIA	19
7. DELIVERABLES	19
7.1 List of Deliverables	19
7.2 Delivery	19
8. REQUIREMENTS ACCEPTANCE STATEMENT	19

- **Introduction**

- **Purpose**

This project aims to develop an cashless based service, which enables an automated system for patient admission, discharge and transfer process (Ward Transfer) whithin the HealthSure hospital.

- **Scope**

The scope of the project is limited to patient admission, transfer (Ward transfer) and discharge. This process enables the patient to book an availabe ward for admission / transfer if required, and

- **Definitions, Acronyms and Abbreviations**

Not Applicable

- **References**

Not Applicable

- **Coordinators**

- Bakkesh S Subedhar

- **Software Requirements**

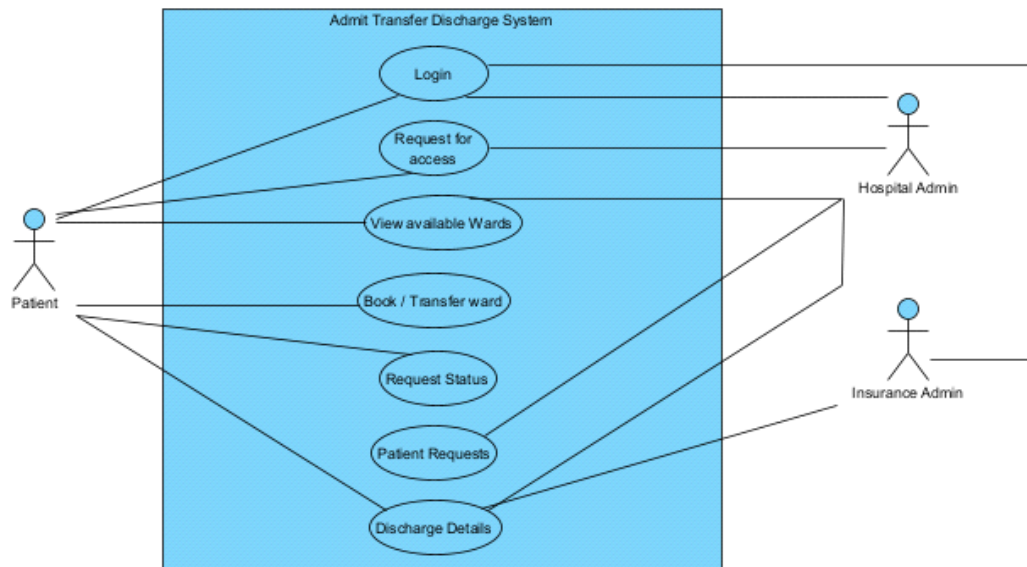
- **Operational Requirements**

ATDS system is used to,

- Enables an patient who is insured with an insurance (cashless procedure) to access the ATDS system.*
- After approval in the insurance eligibility check the patient can book / transfer ward in the hospital.*
- The 'Hospital-admin' has the supriority over all the patient requests (approve/decline), also monitor over the availability of wards in the hospital, generate the discharge details and notify it to the refering patient. And at last the hospital admin also acts as an monitor over 'Insurance-admin' and the 'patient' regarding the insurance eligibility check.*
- The Insurance-admin has the responsibility to maintain (overview) the discharge details of the patient and also verify the insurance requests of patients sent over by Hospital-admin.*

- **Functional Requirements**

FIGURE 2.1 USE CASE DIAGRAM FOR ATDS



Getting verified to access the ATDS:

<i>Requirement Tag ID</i>	<i>RS-1-1</i>	
<i>Source/Trigger</i>	<i>Patient / Hospital Admin / Insurance Admin</i>	
<i>Description</i>	<i>Input</i>	<i>Insurance Number</i>
	<i>Process</i>	<i>The patient needs to submit the insurance number in the portal to verify the eligibility to access the the ATDS. Once the request is made the hospital admin forwards the requests to the insurance admin where as the insurance admin approves or declines based on the document verification.</i>
	<i>Output</i>	<i>The patient may or maynot get the access to the ATDS.</i>
<i>Validation Method</i>		

Booking / Transferring Ward :

<i>Requirement Tag ID</i>	<i>RS-1-2</i>	
<i>Source/Trigger</i>	<i>Patient / Hospital Admin</i>	
<i>Description</i>	<i>Input</i>	<i>New Ward number</i>
	<i>Process</i>	<i>The patient selects the ward number based on their liking and invokes an request. The Hospital admin accepts/rejects the patients request based on the ward availability.</i>
	<i>Output</i>	<i>The patient gets assigned / transfer to an particular ward.</i>
<i>Validation Method</i>		

Discharging Patient :

<i>Requirement Tag ID</i>	<i>RS-1-3</i>	
<i>Source/Trigger</i>	<i>Patient / Hospital Admin / Insurance Admin</i>	
<i>Description</i>	<i>Input</i>	<i>Patient ID</i>
	<i>Process</i>	<i>Once the Hospital admin recieves info on patient discharge, he/she creates an discharge details and notifies both the patient and also the insurance admin (for monitoring over the discharge details).</i>
	<i>Output</i>	<i>The Patient and Insurance admin gets notified. .</i>
<i>Validation Method</i>		

User Interface Requirements

HealthSure+

Register new patient

Id :

Password :

Login

HealthSure+



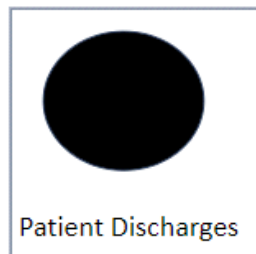
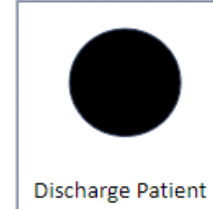
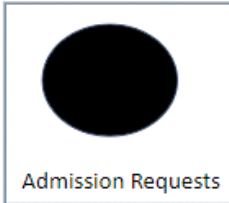
Patient Home Page

Status : In progress

Insurance no :

Verify







Patient ID :

Full Name

Age

Gender

Admission date

Mobile Number

Address

Bill Draft

Final Bill Amount



Ward Type

Ward No :

[View requests](#)

Request No	Ward type	Ward number	Request status

[View requests](#)

Ward type	Ward number



Patient ID	Ward Type	Ward Number	Admission Date

Approve

Decline



Ward Type

Ward No :

Full Name

Age

Gender

Admission date

Mobile Number

Address

Request Book



New User ID	
New Password	
Insurance ID	
Full Name	
Age	Gender
Mobile Number	Address

[Register](#)

Insurance ID :	<input type="text"/>
Full Name	
Age	Gender
Mobile Number	Address
Claimable Amount	Expiry date

[Approve](#)[Decline](#)

- **External Interface Requirements**
NA

- **Project Execution Related Requirements**

- **Development Environment**

- Technologies to be used for development of the Application:

- HTML5
- CSS3
- JavaScript
- React
- Material UI

Software tools that can be used for development:

- Visual Studio Code
- React Library
- Axios

- **Design requirements**

- Not applicable.

- **Coding requirements**

Since the entire application is being coded in React, all the coding standards required by React are certainly applicable here.

- **Error handling requirements**

NA

- **Resource Requirements**

- Technologies to be used for development of the Application:

- HTML5
- CSS3
- JavaScript
- React
- Material UI
- SpringBoot
- Microservice
- MongoDB

- **Risk management**

Not applicable.

- **Training Requirements**

-

- **Testing Requirements**
- **Quality Assurance Activities**
NA
- **Software Acceptance Criteria**

User acceptance test is the sole software acceptance criteria.

In order to fulfill this criteria, the system should be executed and tested. The errors found during system testing should be solved and corrected version of the software should be sent to Customer for final Acceptance Testing.

- **Deliverables**
- **List of Deliverables**
Not applicable
- **Delivery**
Not Applicable
- **Requirements Acceptance Statement**

Requirements Acceptance Statement consists of agreement to the above mentioned requirements by the Customer and Supplier.