



Smart Card Health Security System

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Abstract:

The project aims at providing corporate information and hospital statistics can be viewed in a web on the Internet. Information is to be integrated into the existing web page of the company but the access to it would be restricted to the Chairman and Directors or anybody who has been authorized or register users. According patients needs the hospital management introduce Smart Card Schemes like one year smart card, two year smart card and lifelong Smart Cards? First Patient chooses the smart card according to the patient requirement, depending on Smart card patient get the discount on medical bill. Every person who is willing to take the smart cards, depending on card value, first they pay Card Value to Organization. This information is shared to all the branches of the Hospital group so that they can maintain global information of the group. If the subscriber of the Smart Card is suffering with ill they will be given initial treatment without any consultancy charges.

Keywords: Smart card, Chairman, Branch manager,

I. INTRODUCTION:

According to Customer Requirements the customer choose card. During the card validity period, if the customer joined the hospital, the customer gets the discount of the total Hospital bill, depending on the card discount. The hospital must be tie up with the Hospital Group. If the Hospital not ties up with the Hospital Group, the patient does not get the any Discount. Customer gets the discount if the card is valid.

Working of Smart Card Health Security System:

1. Chairman Module: In this System Chairman is the super User. The activity of the chairman is to create a New Branch in different locations depending on requirement. And also assign a New Branch Manager to New Branch. According to Requirements Chairman generate a New Health Card and also define Card Specifications i.e. card number, card name, Group capacity, validity, Discount, amount. Chairman has a capacity to remove a Branch Manager and also modify the card specifications .Chairman to see the reports based on the branch, state, card, and district wise. These reports helpful to improve his business.

The Main Roles of the Chairman are:-

- Create a New Branch Assign a Branch Manager
- Generate a new Type of Health Card
- Assigning of Health Card Specifications

Sub Modules:

Branch: According requirement the Hospital Group launch a Branches in different Places i.e. (inside Andhra Pradesh and also a outside Andhra Pradesh).And also assign a Branch Manager to New Branch. Chairman enters the all the details of Branch Manager in database through project. Mainly Manager name, Father's name, Permanent Address, Telephone number, email

address. These types of information enter into Data Base by the Chairman. After that, the Chairman gives to Manager his username and password. Managers login to system with their username and password. This type of Authentication Information will be give to Managers by Chairman. The chairman has full privileges on Managers, i.e. transfers to managers to another places, remove the Managers, If a Manager changed his phone number, then chairman has a privilege to update his details.

Card:

The Chairman defined the card specifications, i.e. Card Name, Card Number, Group Limit, Time duration, Discount, Amount. These types of speciation only defined by Chairman Card number is generated dynamically. Here Group limit specification means that maximum number of registrations per Card depending on the type of the card. Any modifications regarding to card specifications, the chairman only the person modified the card specifications. According to the requirement, the chairman generates the new cards and also defines the specifications. The chairman has a authority to delete the card or modifications of card specifications depending on requirement. The smart card value defined by the Chairman. The customer must have to pay full card amount. In future, the customer will suffer any disease, then the customer will join any Hospital belongs to Hospitals Group, the customer will get discount on total Hospital Bill. These types of smart cards are very helpful to customers. Once Customer get a smart card, then the customer get discount of any Hospital, that hospital belongs to Hospital Group. The customer registers any one of Branch, and then customer will get discount any Hospital. Here the all branches will share database. Once customers register their registration, there is no way no cancellation of their registration any circumstances.

2. Branch Manager: -

Branch Manager is the head of the Branch, assigned by the Chairman. Branch Manager taking the details from the

Customers, who is willing to take the card,. The main activity of the manager is to register the customer details, i.e. card name, cardholder name, age, sex, registration number, phone number, and also relation details depending cardholder. Branch Manager generates reports according branch wise, district wise, state wise and also card wise. These reports are helpful to improve the branch.

The Main Roles of the Branch Manager are:

- Taking the Enquiry details from Customers.
- Register the New Customers
- And also Register the customer Relation details
- Modify the Customer Details (If required)

Sub Modules:

Enquiry:-

In this Module, Branch Manager first enters the customer details, for future correspondence and also estimates the static's of business.

Registration:-

Every Branch has a one Branch Manager. Branch Manager has a Superior of the Branch. Branch manager register the customer details.

II. OBJECTIVES:

- To provide accurate patient information and card discounts.
- To make smart card effective use by the patient.
- To Make E-way to allocate the smart card to other Hospital group.
- To provide smart card by the branch manager to have authentication
- To save the time and reduce the paper work.
- Generates the smart card for each patient automatically.
- First Patient chooses the smart card according to the patient requirement, depending on Smart card patient get the discount on medical bill.
- This information is shared to all the branches of the Hospital group so that they can maintain global information of the group.
- Provide validation to input data.
- Login authentication.
- Automatic Report generation

DESIGN

The most creative and challenging phase of the life cycle is system design. The term design describes a final system and the process by which it is developed. The design may be defined as *“the process of applying various techniques and principles for the purpose of defining a device, a process or a system with sufficient details to permit its physical realization”*. The designer’s goal is how the output is to be produced and in what format. Samples of the output and input are also presented. Second input data and database files have to be designed to meet the requirements of the proposed output. The processing phases are handled through the program Construction and Testing. Finally, details related to justification of the system and an estimate of the impact of the candidate system on the user and the organization are documented and evaluated by management

as a step toward implementation. The importance of software design can be stated in a single word **“Quality”**. Design provides us with representations of software that can be assessed for quality. Design is the only way where we can accurately translate a customer’s requirements into a complete software product or system. Without design we risk building an unstable system that might fail if small changes are made. It may as well be difficult to test, or could be one who’s quality can’t be tested. So it is an essential phase in the development of a software product.

Use Case Diagrams:

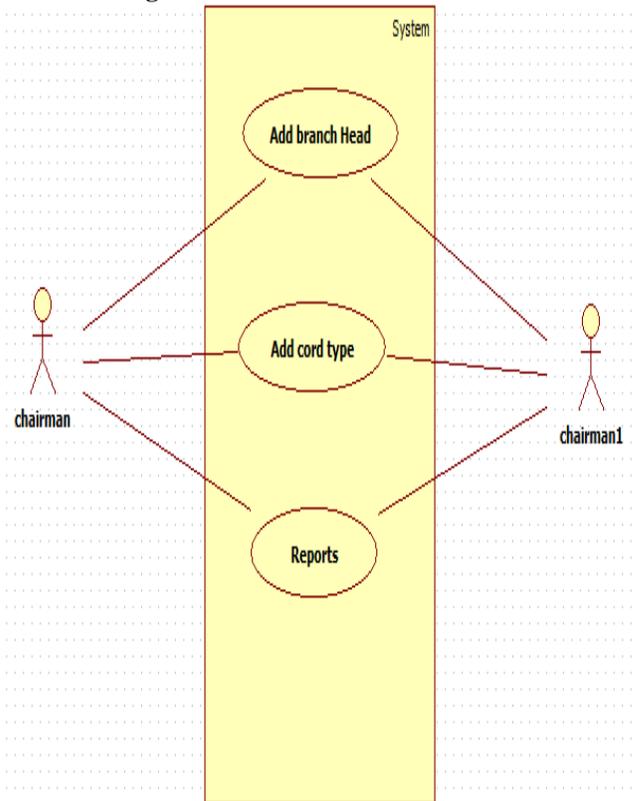


Figure.1. Chairman:

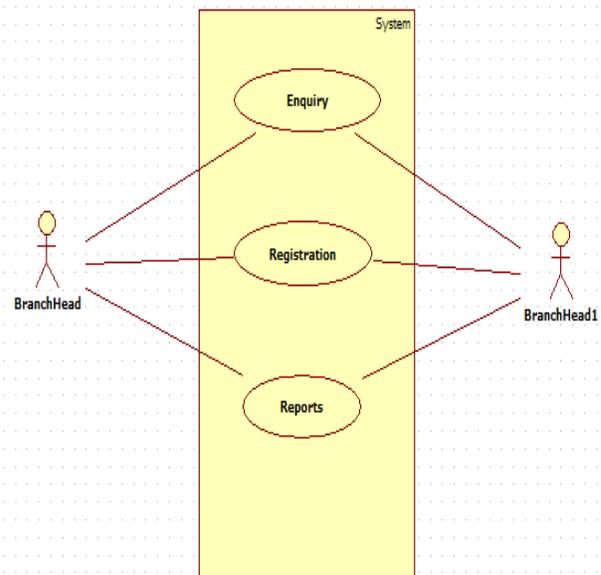


Figure.2. Branch Head:

Sequence Diagrams:

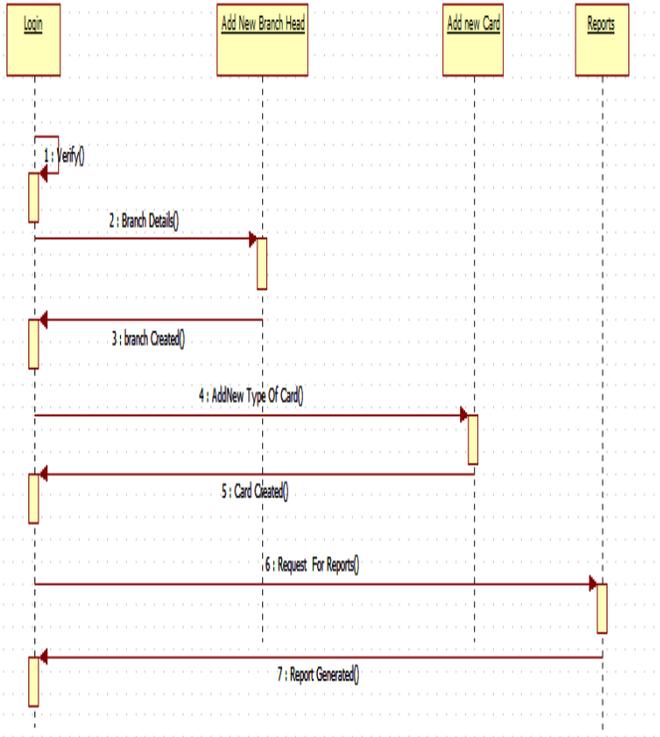


Figure.3. Chairman:
Sequence Diagram of Branch Head:

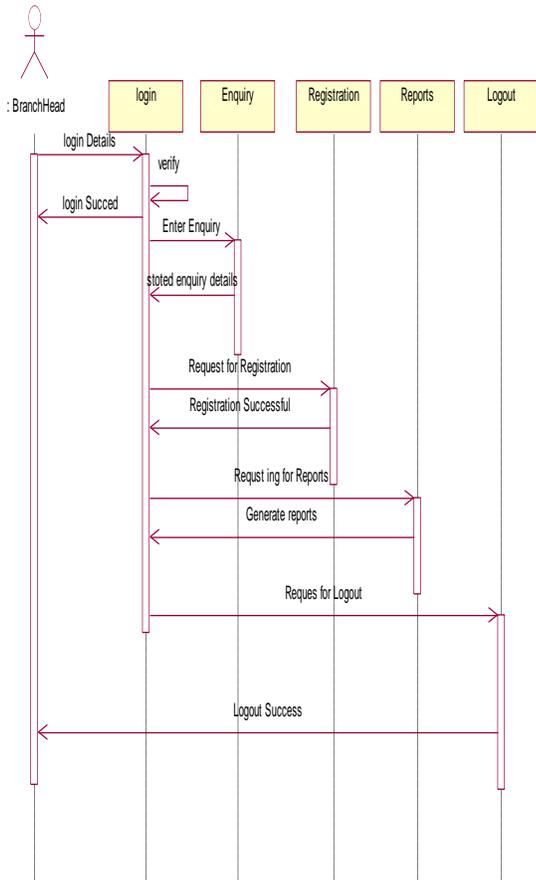


Figure.4. Branch Head

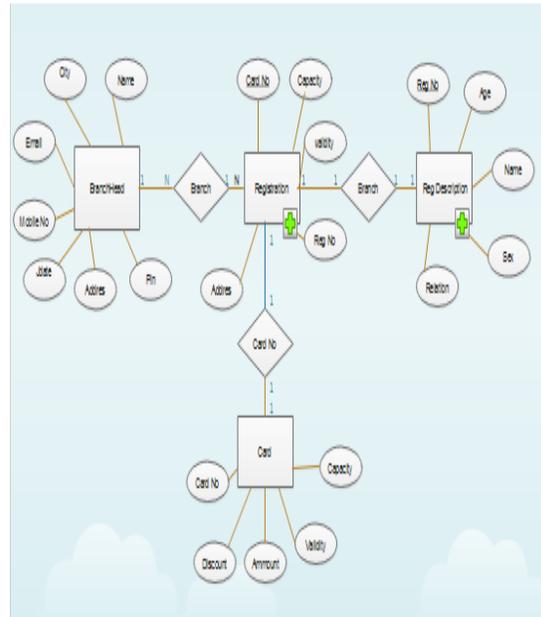


Figure.5. E-R Diagram of System

III. RESULTS & SNAPSHOTS



Figure.6. Main Page



Figure.7. Login Page



Figure.8. Branch Head



Figure.9. Adding Branch Head



Figure.10.id generated successfully.

III. CONCLUSION

The objective of the project is to automate the "Organization management". By using oracle as back-end and Java as front-end under Particular environment. The efficiency of any system designed to suit an organization depends cooperation during the implementation stage and also flexibility of the system to adopt itself to the organization. This project "Smart Card" is very useful and helpful because the efficiency will improve with better way of communication among Chairman-Manager, Manager- Customer. Reliable and accurate reports could be available with in a very short time, which is not possible if done manually.

IV. REFERENCES

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