SMART BUSINESS INFORMATION SYSTEM

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Computer Science and Engineering

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APPROVAL

This Project titled "**Smart Business Information System**", submitted by Hriday Ahmed, ID No: 142-15-3510 and Mejba Ahmed, ID No: 142-15-4092 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 05/05/2018.

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DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Rubaiya Hafiz, Lecturer, Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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Finally, we must acknowledge with due respect the constant support and patients of our parents.

ABSTRACT

In an industry, the requirements of the system have to be cost effective. There are also some challenges such as to analyze cost and profit on a product, about business requirements, in management, decision making processes in business. When some challenges are holding a manager back that is where Smart Business information system comes. Smart Business information system has a purpose to make the information easier between all business functions within the boundaries of the organization and manage the organizations connections with its outside system analyst. There are two modules in the system which is Transactional module and financial module. And there is also a dashboard which maintains access the power of Admin, manager, director and regular users. In traditional management system there is no specific authentication access to the system. But in this system, there is a specific authenticate access to the system using dashboard. And most of the traditional business management information system there is no inter department coordination. But in this system, there is inter department coordination. A system analyst of specific module of a specific section can only get access to the authorize section. Unauthorized users would not able to get access to a specific section of a specific module.

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CHAPTER 1

INTRODUCTION

1.1 Introduction of the Project

In this era of sciences and technology, technology is used to help us in every sphere of life. Smart Business Information System is an integrated system. It may help to store and manage data from every phase of business.

The SBIS system helps to integrate all the different departments and functions of an organization into a single computer system to serve the various needs of that organization. With an integrated solution, different departments can easily share information and communicate with one another. In this business management information System there are two modules which are transactional and financial module.

1.2 Motivation

Our main motivation is to save time and digitalized our business system. It is great work to convert our business system digitalized. The dream is to make ourselves a good web developer.

1.3 Objectives

The main purpose of our project is to make the information easier between all business functions within the boundaries of the organization and manage the organizations connections with its outside system analyst. There are two modules in the system which is Transactional module and financial module. And there is also a dashboard which maintains access the power of Admin, manager, director and system analyst. There is a specific authenticate access to the system using dashboard. In this system, there is inter department coordination. A system analyst of specific module of a specific section can only get access to the authorize section. Unauthorized users would not able to get access to a specific section of a specific module.

1.4 Expected Outcome

The main Outcome of our project

- To save time.
- From anywhere access and work nicely.
- No need to store information others place.
- Every person does their specific job.
- All user chats each other.
- The purpose of the project is to reduce the manual work in a business system.

1.5 Report Layout

In the chapter (1) I have described introduction of my project, motivation, objectives, expected outcome.

In the chapter (2) I have described my system full overview, related work, comparative studies, challenges of my project and scope of my project.

In the chapter (3) I have described about different types of model and diagram like as business process model, use case diagram, requirement collection and analysis, logical data model.

In the chapter (4) I have described about my project front-end design, back-end design, interaction design and ux, implementation requirements, test results and reports.

In the chapter (5) I have described about implementation of database, implementation of front-end design, implementation of interactions, testing implementation.

In the chapter (6) I have described is Conclusion and Future Scope. I discuss Future Scopes of this system.

CHAPTER 2

SYSTEM REVIEW

2.1 Introduction

In this era of sciences and technology, technology is used to help us in every sphere of life. Smart Business Information System is an integrated system. It may help to store and manage data from every phase of business. The SBIS system helps to integrate all the different departments and functions of an organization into a single computer system to serve the various needs of that organization. With an integrated solution, different departments can easily share information and communicate with one another. In this business management information System there are two modules which are transactional and financial module.

2.2 Related Works

Maximum business company mainly store their information offline. But few business company maintain online and hiddenly use their system. Normally a user can't find it. Our system for startup business company.

2.3 Comparative Studies

Most of the case Business company store their information manually. But few group of company finally realize that and digitalized their business system. But they have some limitation. In traditional management system there is no specific authentication access to the system. And most of the traditional business management information system there is no inter department coordination. Our aim was to develop like that web application which is free from those limitations. Finally, we completed our web application.

2.4 Scope of the Problem

In an industry, the requirements of the system have to be cost effective. There are also some challenges such as to analyze cost and profit on a product, about business requirements, in management, decision making processes in business. When some challenges are holding a manager back that is where Smart Business Information System comes.

In this modern era most of the people depend on online. Some people are very busy for their official or any others work. So, it is difficult to follow up all the part of a business in our traditional process. That is where Smart Business Information System comes. SBIS save our time and also it is web based so we can access it every place and everywhere.

2.5 Challenges

It's a big challenge to help company in our society. Most of the case our country business company traditionally manage their business information and transaction. They do not think this application benefits. This application helps a user easily find out customer, product, business transaction and other activities of a business company.

CHAPTER 3

REQUIREMENT SPECEFICATION

3.1 Sequence Diagram

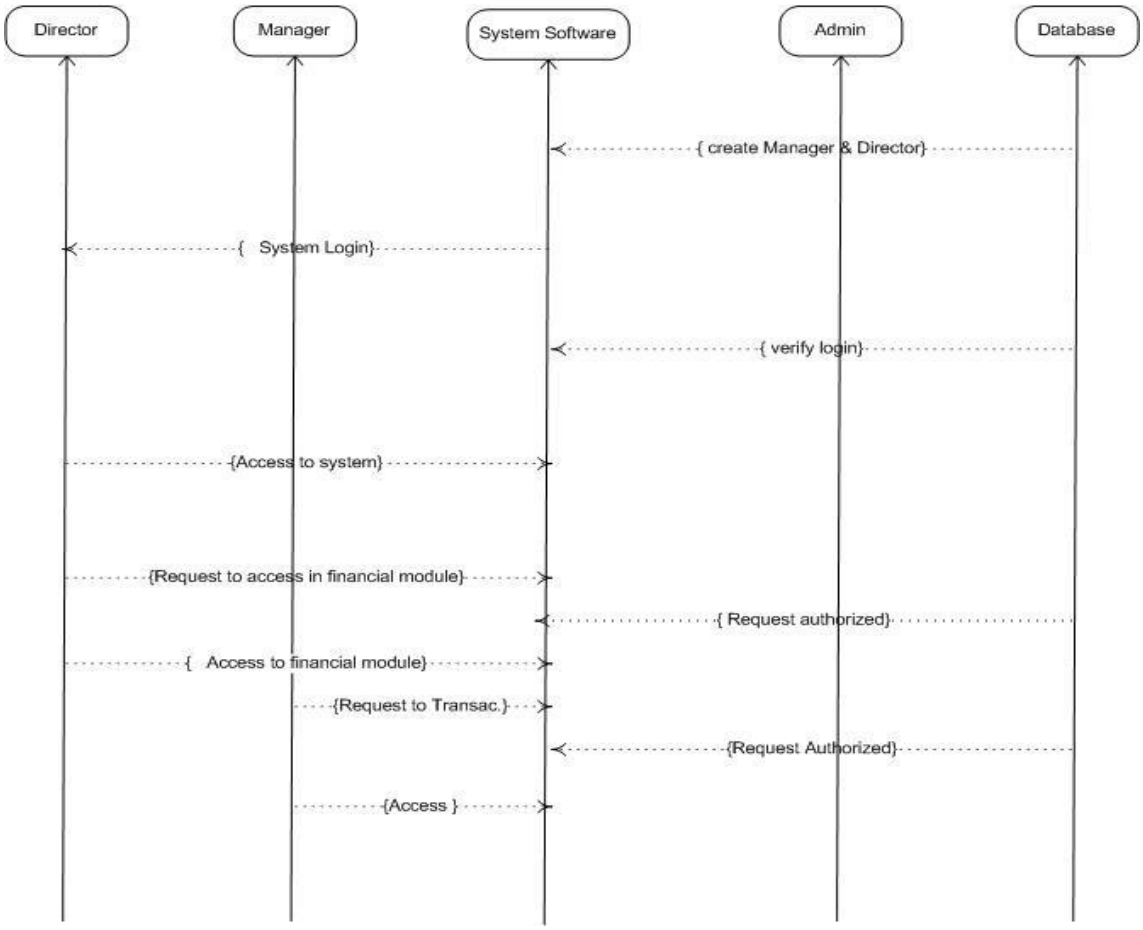


Fig 3.1: Sequence Diagram

3.2 Requirement Collection and Analysis

Firstly, developer create a default admin information. Then admin made other user registration form with access validation. Admin access all the field but manager don't access dataset & financial, director don't access dataset and system analyst only access

dataset option full of the information system. Reminder that every user must be login in first this system. By this way we are collecting data. We have already rightful data.

3.3 Use Case Modeling

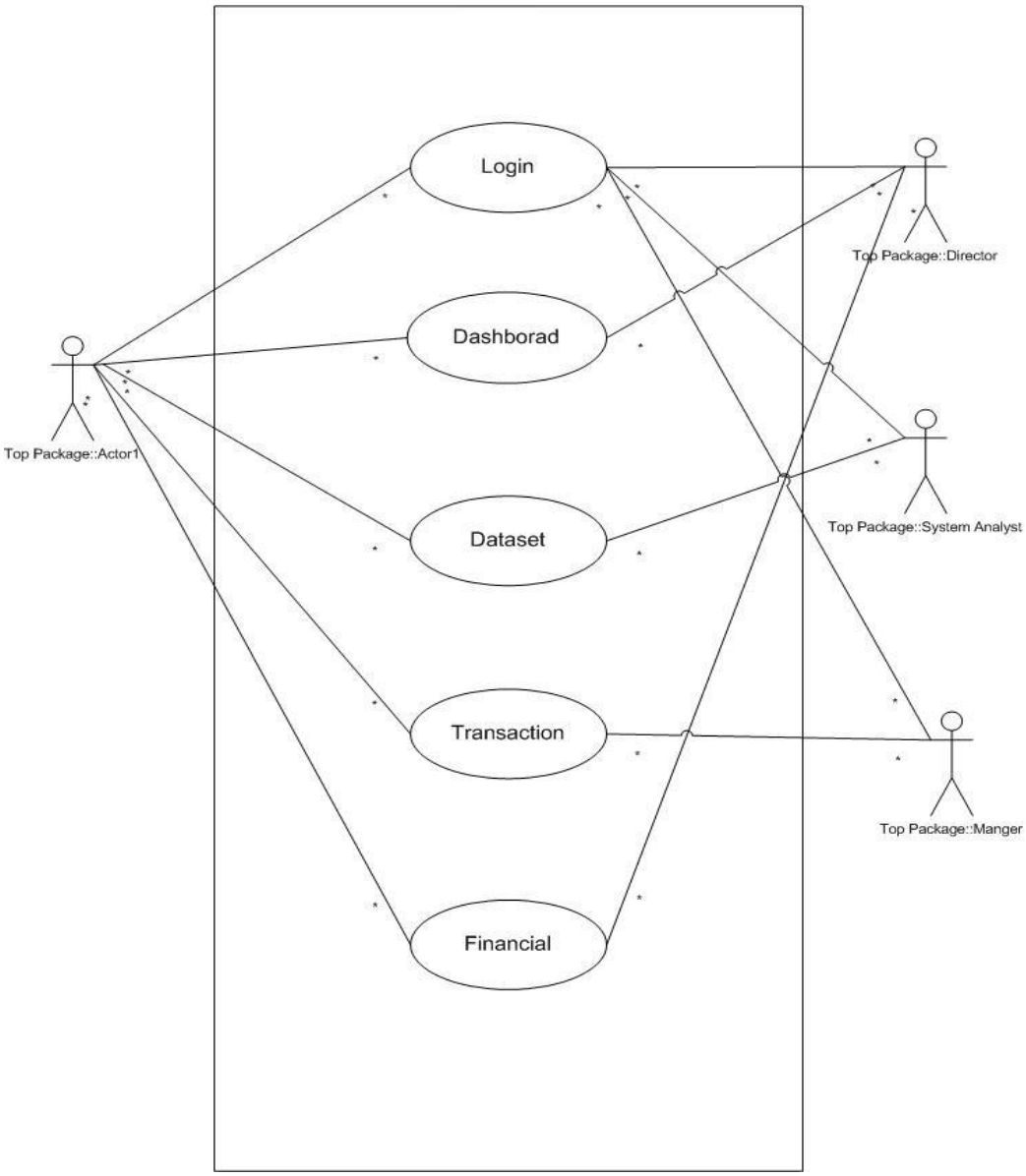


Fig 3.2: Use Case Diagram of Smart Business Information System

3.4 Activity Diagram

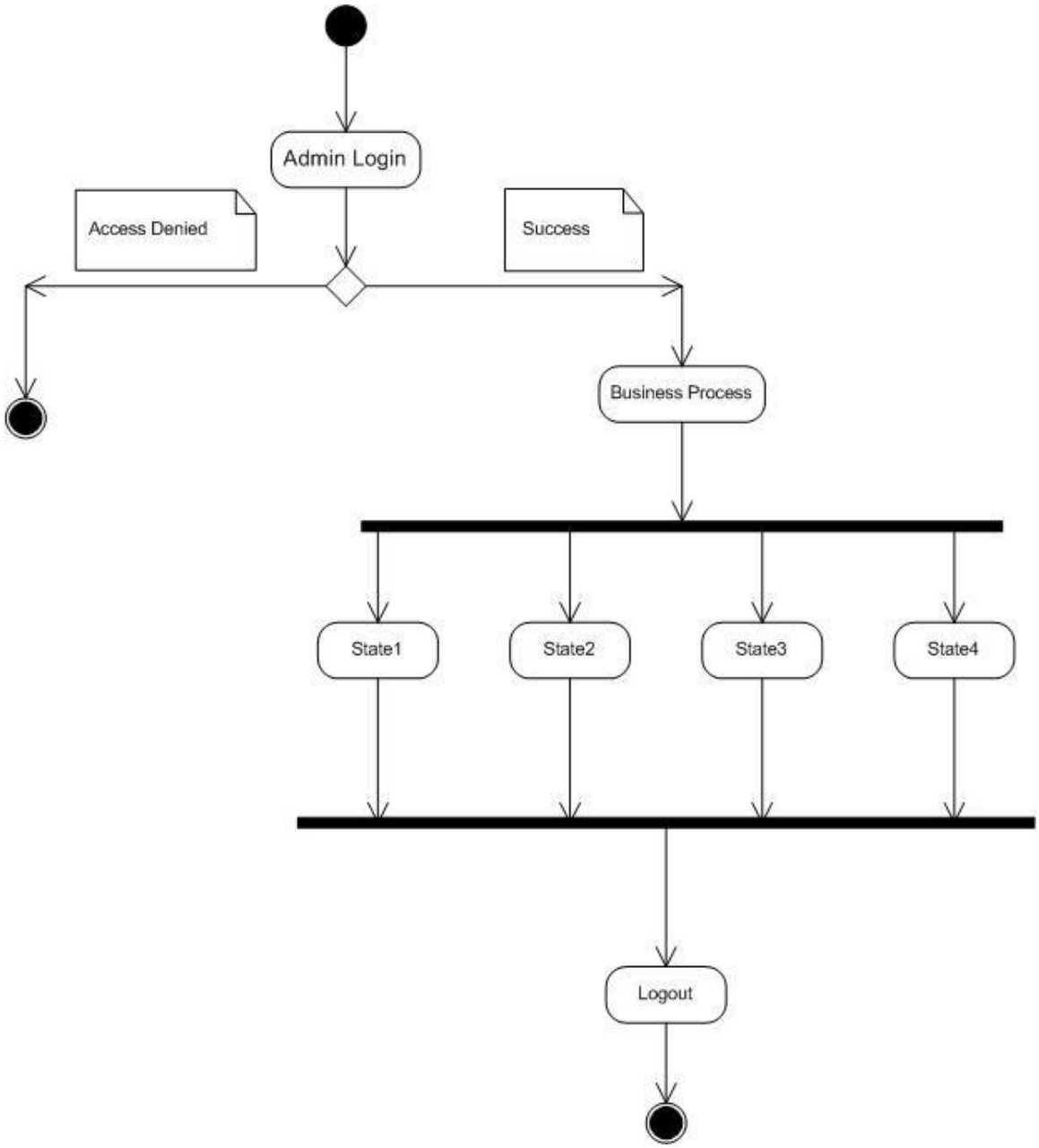


Fig 3.3: Admin activity diagram

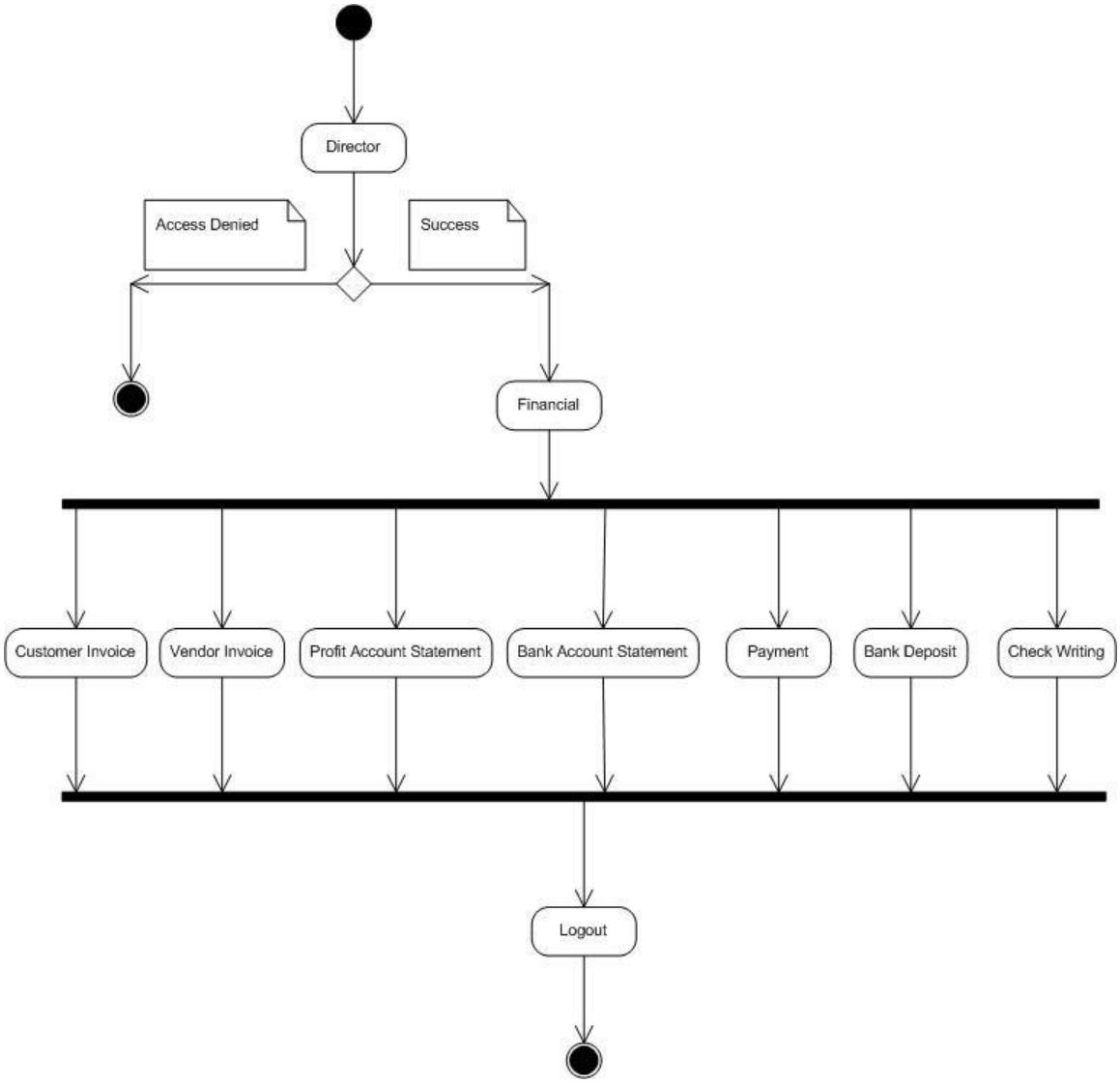


Fig 3.4: Director activity diagram

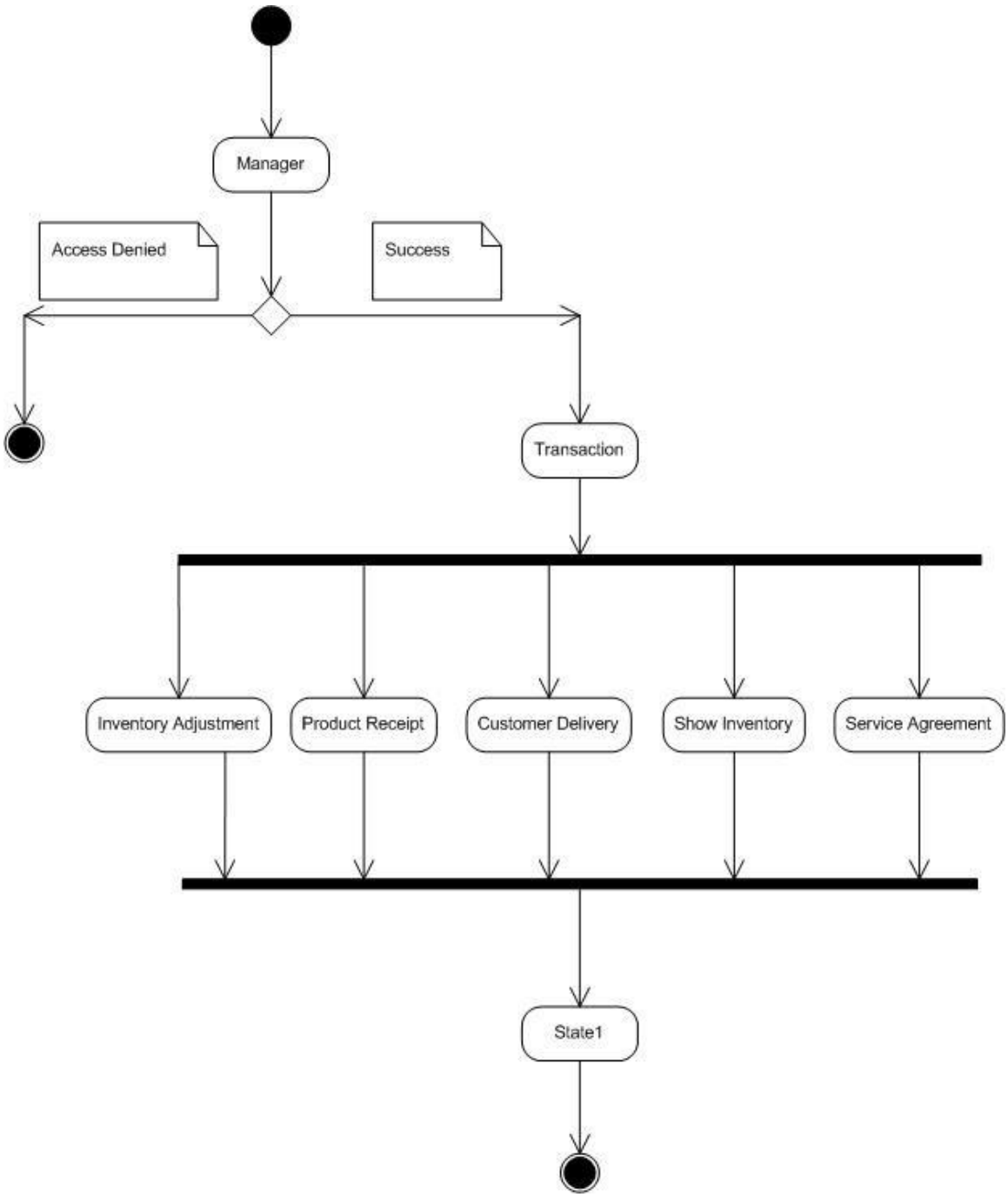


Fig 3.5: Manager activity diagram

CHAPTER 4

DESIGN SPECEFICATION

4.1 Front-end Design

Here some of screenshots that explain the whole process.

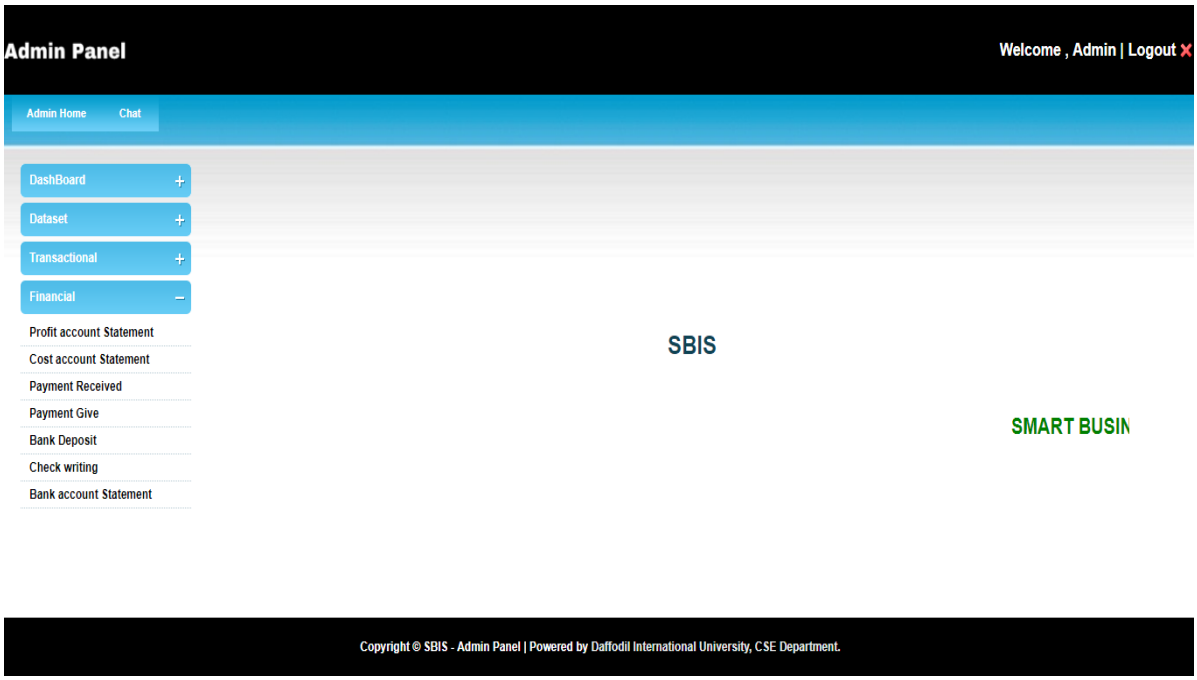


Fig 4.1.1: Home page

Fig 4.1.2: User chatting with each other

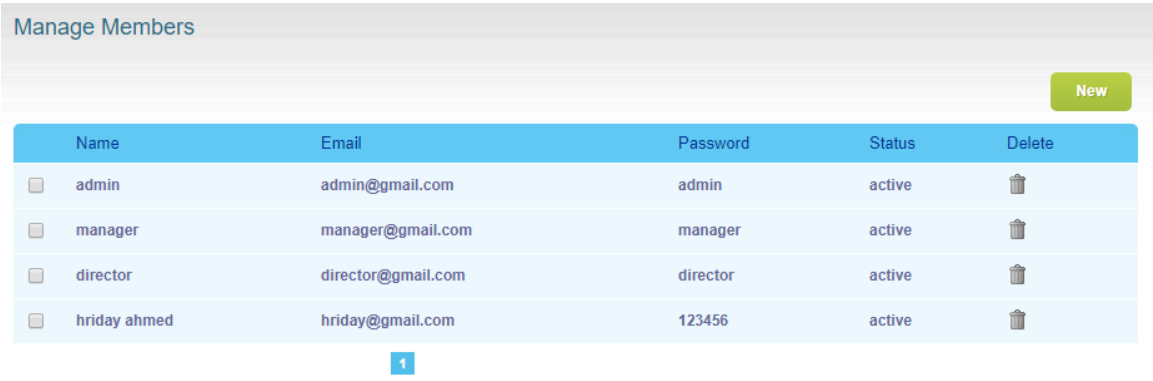


Fig 4.1.3: All valid user page

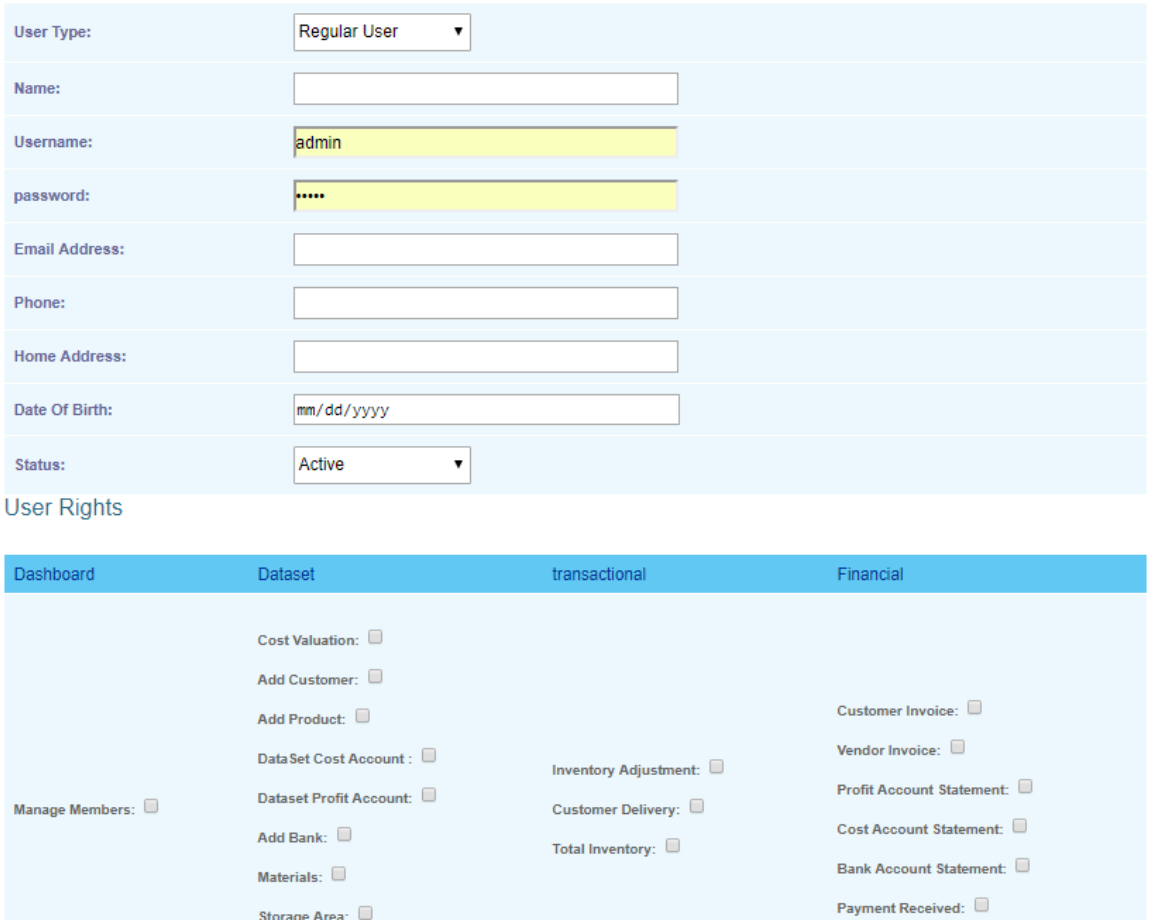


Fig 4.1.4: Add new user page

Fig 4.1.5: Customer Page

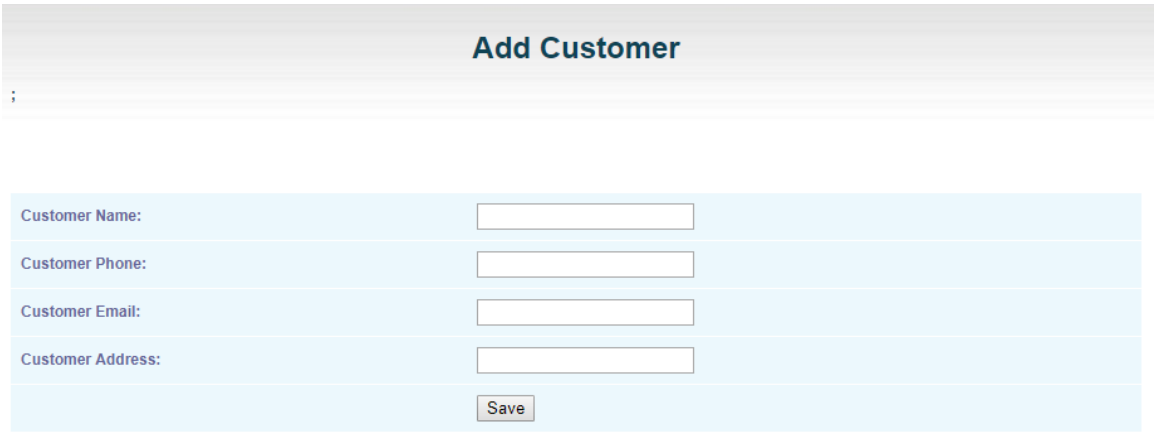


Fig 4.1.6: Add new customer Page

Fig 4.1.6: Vendor Page

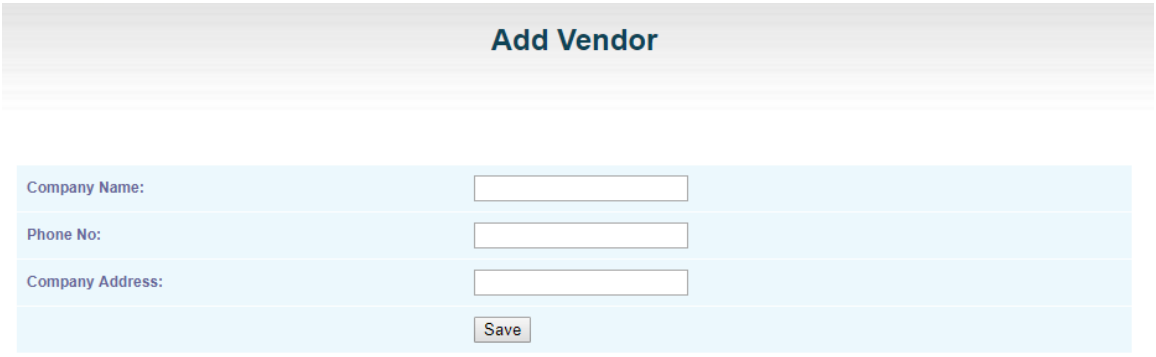


Fig 4.1.7: Add new vendor Page

Fig 4.1.8: Materials page

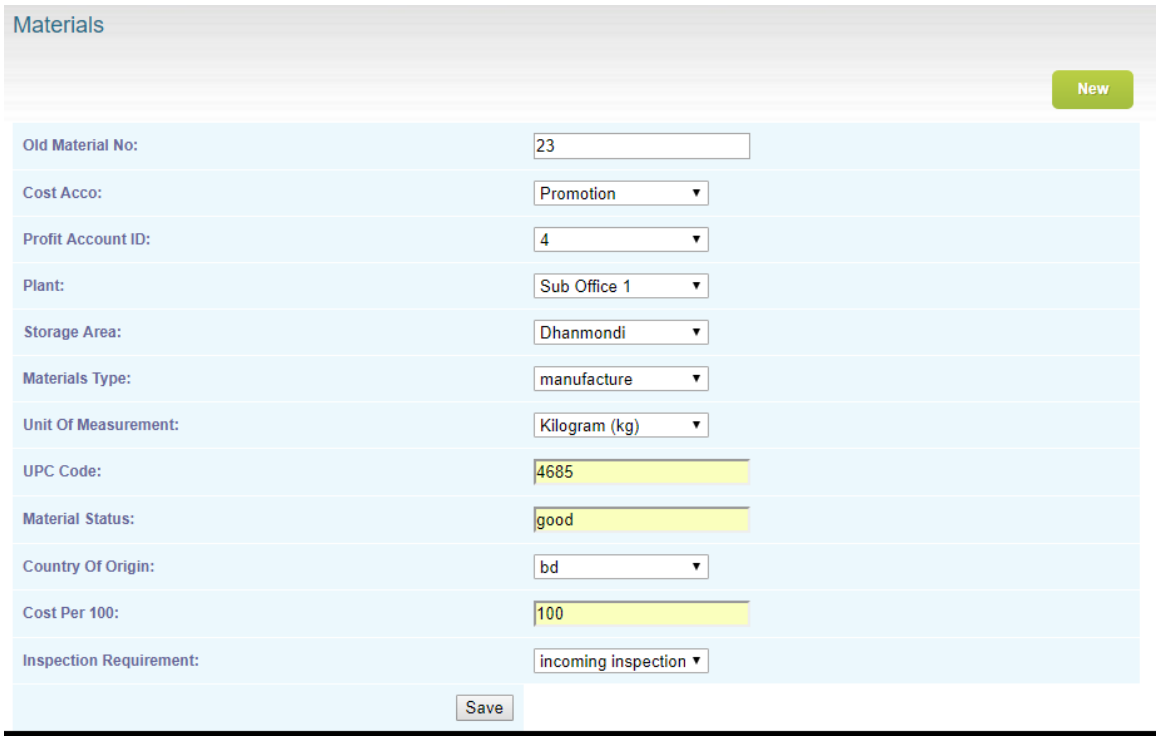


Fig 4.1.9: Add new materials page

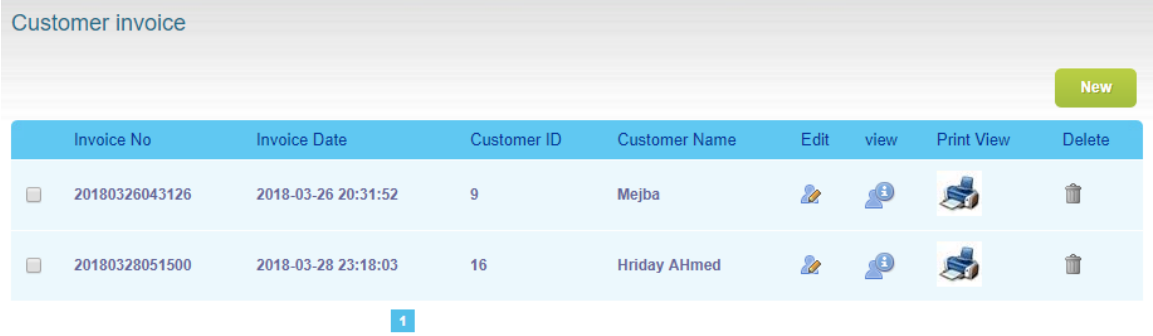
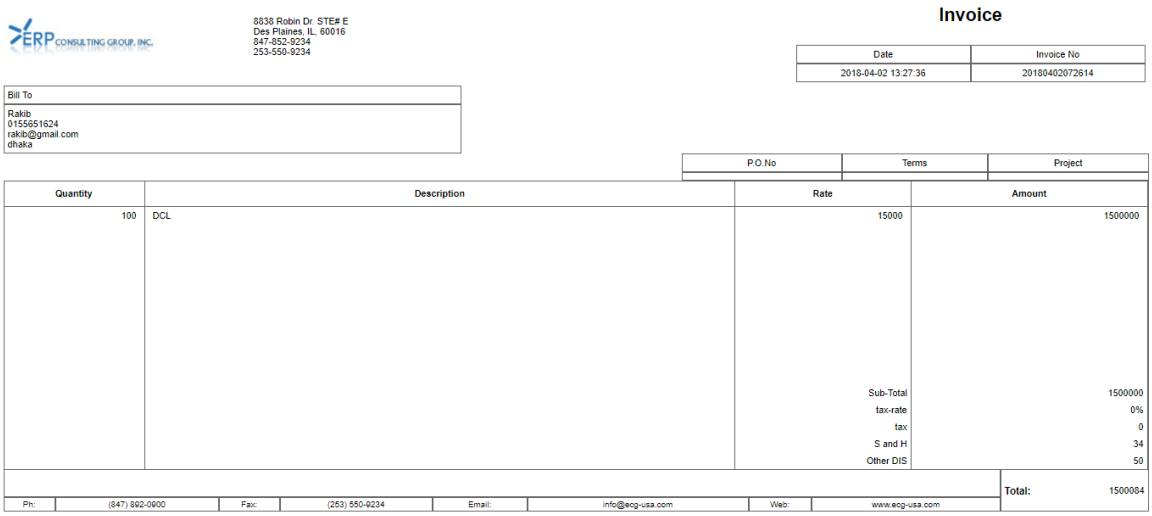


Fig 4.1.10: Customer invoice page

Fig 4.1.11: Add new customer invoice page



ERP CONSULTING GROUP, INC.

8838 Robin Dr. STE# E
Des Plaines, IL. 60016
847-852-9234
253-550-9234

Invoice

Date	Invoice No
2018-04-02 13:27:36	20180402072614

Bill To

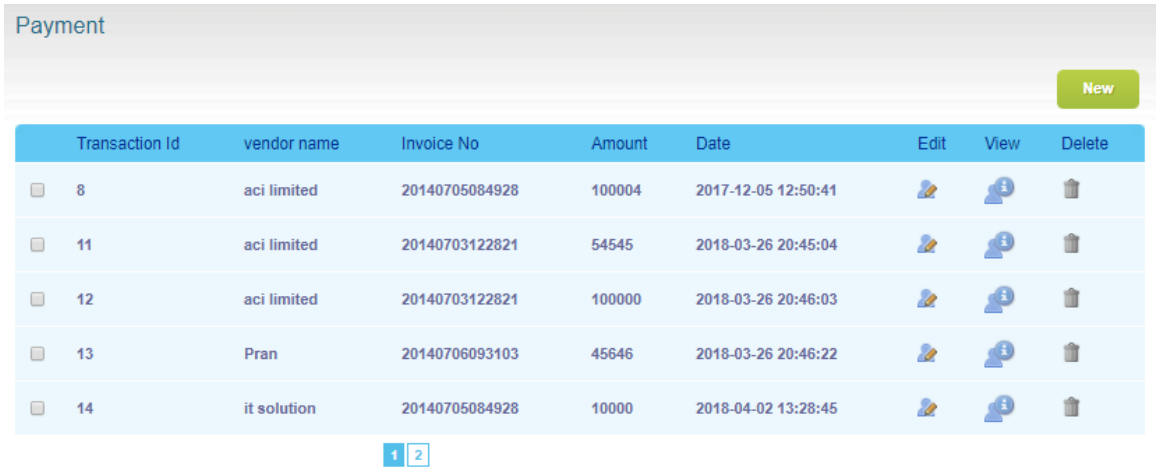
Rakib
0155651624
rakib@gmail.com
dhaka

P.O.No	Terms	Project

Quantity	Description	Rate	Amount
100	DCL	15000	1500000
		Sub-Total	1500000
		tax-rate	0%
		tax	0
		S and H	34
		Other DIS	50
		Total:	1500084

Ph: (847) 892-0900 Fax: (253) 550-9234 Email: info@ecg-usa.com Web: www.ecg-usa.com

Fig 4.1.12: Invoice print page



Payment

New

	Transaction Id	vendor name	Invoice No	Amount	Date	Edit	View	Delete
☐	8	aci limited	20140705084928	100004	2017-12-05 12:50:41			
☐	11	aci limited	20140703122821	54545	2018-03-26 20:45:04			
☐	12	aci limited	20140703122821	100000	2018-03-26 20:46:03			
☐	13	Pran	20140706093103	45646	2018-03-26 20:46:22			
☐	14	it solution	20140705084928	10000	2018-04-02 13:28:45			

1 2

Fig 4.1.13: Payment page

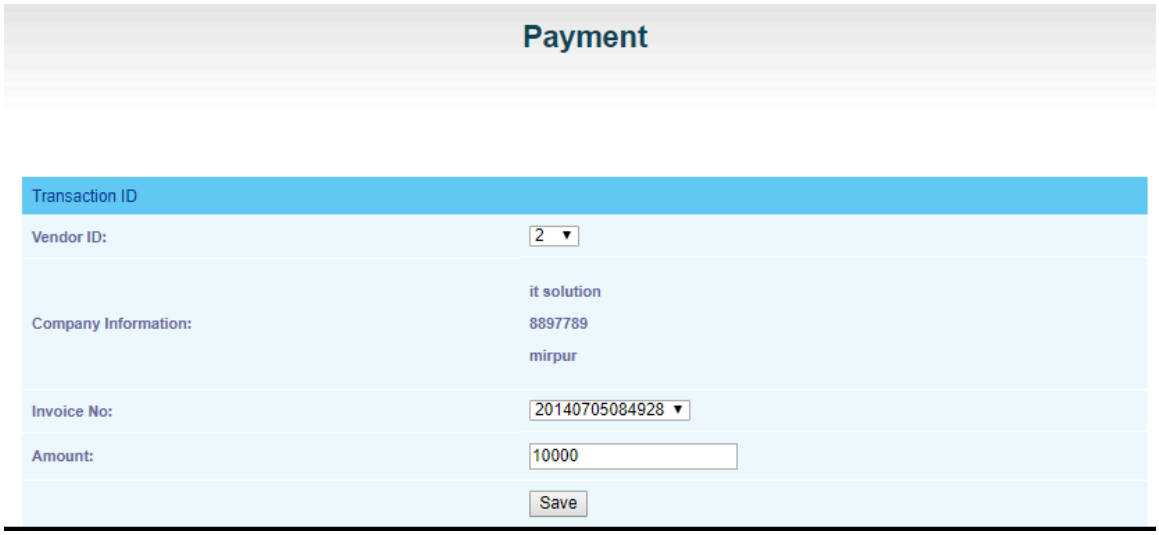


Fig 4.1.14: Add new payment transection

Fig 4.1.15: Bank deposit page

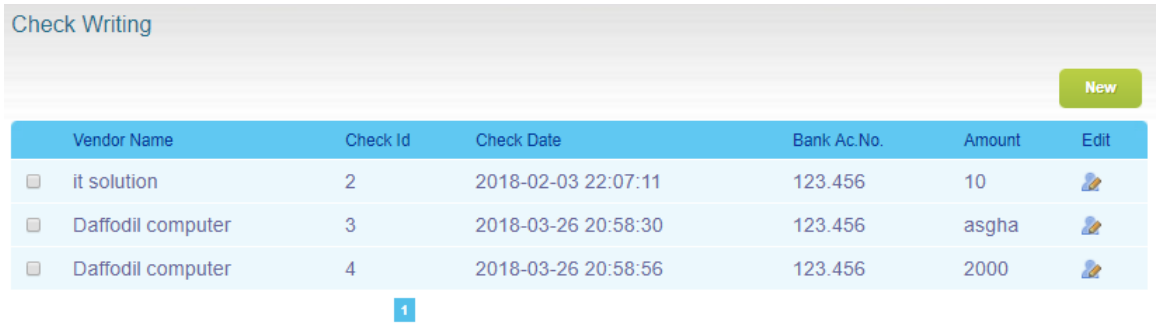


Fig 4.1.16: Check writing page

4.2 Back-end Design

Here some of screenshots that explain project backend process.

Table	Action	Rows	Type	Collation	Size	Overhead
bank	Browse Structure Search Insert Empty Drop	6	InnoDB	latin1_swedish_ci	16 KiB	-
bank_tran	Browse Structure Search Insert Empty Drop	11	InnoDB	latin1_swedish_ci	16 KiB	-
bmis_login	Browse Structure Search Insert Empty Drop	4	InnoDB	latin1_swedish_ci	32 KiB	-
check_writing	Browse Structure Search Insert Empty Drop	4	InnoDB	latin1_swedish_ci	16 KiB	-
cost_account	Browse Structure Search Insert Empty Drop	3	InnoDB	latin1_swedish_ci	16 KiB	-
cost_valuation	Browse Structure Search Insert Empty Drop	4	InnoDB	latin1_swedish_ci	16 KiB	-
countryof_origin	Browse Structure Search Insert Empty Drop	2	InnoDB	latin1_swedish_ci	16 KiB	-
customer	Browse Structure Search Insert Empty Drop	5	InnoDB	latin1_swedish_ci	16 KiB	-
customer_delivery	Browse Structure Search Insert Empty Drop	20	InnoDB	latin1_swedish_ci	16 KiB	-
customer_delivery_second	Browse Structure Search Insert Empty Drop	4	InnoDB	latin1_swedish_ci	16 KiB	-
cust_invoice	Browse Structure Search Insert Empty Drop	10	InnoDB	latin1_swedish_ci	16 KiB	-
inspection_requirement	Browse Structure Search Insert Empty Drop	2	InnoDB	latin1_swedish_ci	16 KiB	-
inventory_adjustment	Browse Structure Search Insert Empty Drop	10	InnoDB	latin1_swedish_ci	16 KiB	-
invoice_product	Browse Structure Search Insert Empty Drop	18	InnoDB	latin1_swedish_ci	16 KiB	-
in_adjustment_second	Browse Structure Search Insert Empty Drop	24	InnoDB	latin1_swedish_ci	16 KiB	-
materials	Browse Structure Search Insert Empty Drop	3	InnoDB	latin1_swedish_ci	16 KiB	-

Fig 4.2.1: MySQL database

payment	Browse Structure Search Insert Empty Drop	4	InnoDB	latin1_swedish_ci	16 KiB	-
payment_received	Browse Structure Search Insert Empty Drop	3	InnoDB	latin1_swedish_ci	16 KiB	-
plant	Browse Structure Search Insert Empty Drop	2	InnoDB	latin1_swedish_ci	16 KiB	-
product	Browse Structure Search Insert Empty Drop	4	InnoDB	latin1_swedish_ci	16 KiB	-
product_receipt	Browse Structure Search Insert Empty Drop	13	InnoDB	latin1_swedish_ci	16 KiB	-
product_receipt_second	Browse Structure Search Insert Empty Drop	3	InnoDB	latin1_swedish_ci	16 KiB	-
profit_account	Browse Structure Search Insert Empty Drop	2	InnoDB	latin1_swedish_ci	16 KiB	-
rights	Browse Structure Search Insert Empty Drop	22	InnoDB	latin1_swedish_ci	16 KiB	-
storage_area	Browse Structure Search Insert Empty Drop	3	InnoDB	latin1_swedish_ci	16 KiB	-
suppliers	Browse Structure Search Insert Empty Drop	1	InnoDB	latin1_swedish_ci	16 KiB	-
uom	Browse Structure Search Insert Empty Drop	3	InnoDB	latin1_swedish_ci	16 KiB	-
vendor	Browse Structure Search Insert Empty Drop	8	InnoDB	latin1_swedish_ci	16 KiB	-
vendor_invoice	Browse Structure Search Insert Empty Drop	8	InnoDB	latin1_swedish_ci	16 KiB	-
v_invoice_product	Browse Structure Search Insert Empty Drop	10	InnoDB	latin1_swedish_ci	16 KiB	-

Fig 4.2.2: MySQL database

Fig 4.2.3: MySQL database design

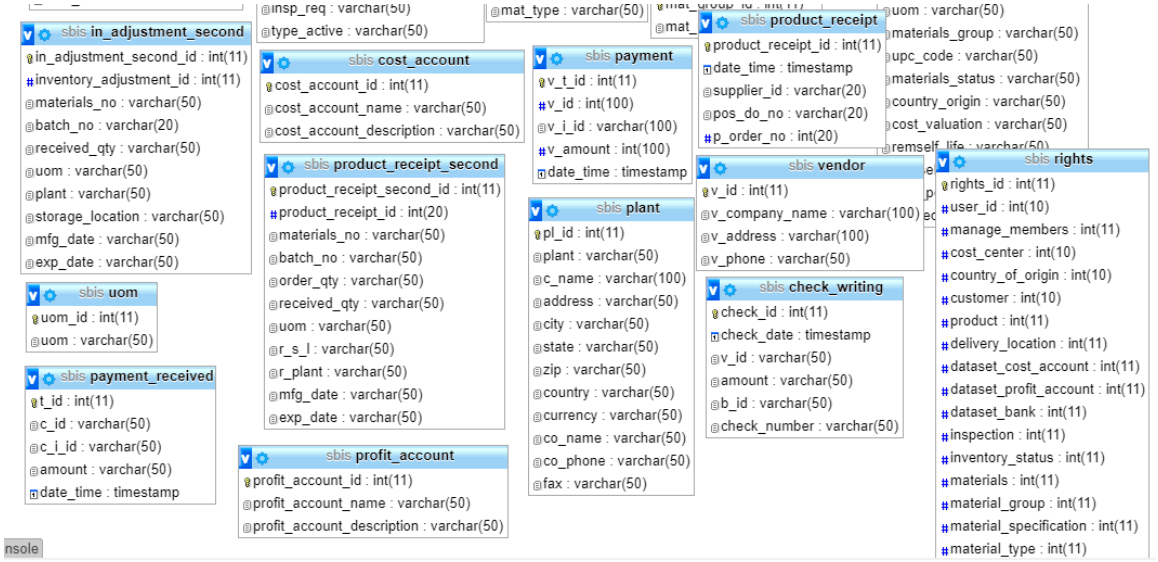


Fig 4.2.4: MySQL database design

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database

This project is made for help business company. As build up community, here all the user communicates each other and update their database. To connected people internet is the most fastest media to reach people. So, we marge it together to build a powerful community to help each other. On this purpose we chose web for the best solution. We build our database live and it give the data any cross platform. We use MYSQL Database.

5.2 Implementation of Front-end Design

We build up our web application in HTML, CSS, CSS3 and JavaScript. Our UI is most attractive and neat and clean. Our front page is so simple. For this reason, it takes short time to load & give the result so fast as fast as possible. UI is the most important part of a user to use this. Load time of page is most important also, cause if a user need 1 minute or 2 minutes to load a web page most of the time user ignore those type of web app. So, for this reason we build it so simple.

5.3 Implementation of Interactions

We said that our project build for create a big community to help each other. Without user help it's a useless project. We try to best to close to user and give them the best experience to our application. We ensure that we protect their information and don't give any public uses for bad purpose. Why a user uses our application, cause it a clean UI, faster load time, easily contact to the right person. We also connected to our user with biggest business platform. We create an option to receive user feedback using email. It's long project and it was update day by day. Not only as a developer can do this, every project will be successful to help each other. So be a user they will be an important part of our project.

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Discussion and Conclusion

Smart Business Information System is a vital information system in the field of technology and business. It has a purpose to make the information easier between all business functions within the boundaries of the organization and manage the organizations connections with its outside system. The transactional and financial module is integrated with dashboard in this system.

6.2 Scope for Further Developments

Future plans are -

To include remaining business processes those are:

- Human Resources and
- Quality Management

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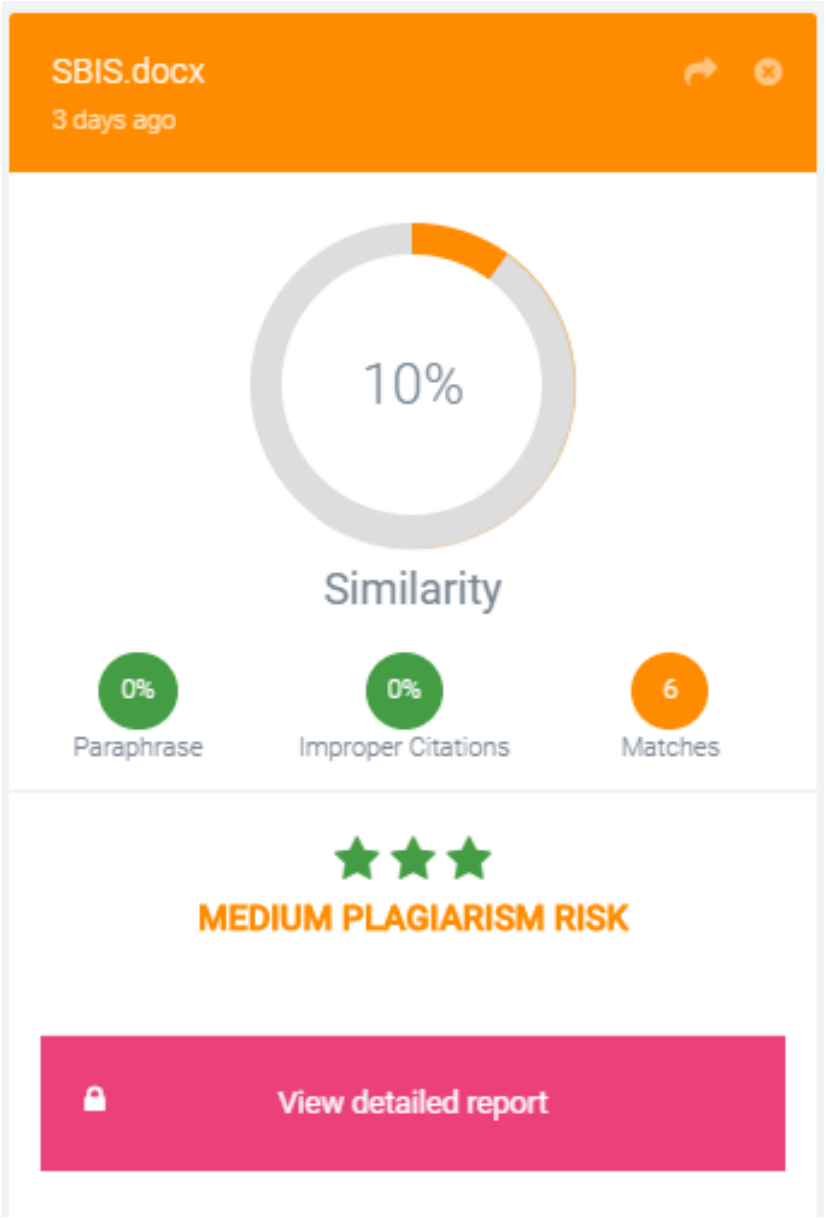
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