



**ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)**

Project Report Title: **IUT LAUNDRY**

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15 th May 2014

## Certification

This is to certify that this project report titled “IUT Laundry” is a true work of Ismalia Bouba (133417) and **Mfouapon M.O (133412)** who successfully carried out the work project under the supervision of Prof.Dr.M.A.Mottalib and Mr Md Moniruzzaman. This project will count as our final year project which will put an end to our one year program as BScTE Students.

### Authors:

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Date:

**DEDICATION:**

This project of ours is dedicated to our beloved parents, May ALLAH grants them Paradise. We will also like to dedicate this work of ours to those who assisted us during this long journey of work. May ALLAH bless you all.

**OVERVIEW OR CONTENT:**

- **Introduction**
- **Current System**
- **Objectives**
- **Proposed System**
- **Modules and Design**
- **Model**
- **Features**
- **Technologies in Use**
- **Security**
- **Work Done**
- **Future Plan**

## **INTRODUCTION:**

Through out this document we shall be talking about Developing a website for IUT laundry. Presently a system already exist which is not computerized, We want to computerize this system so that dress wash order can be placed at anytime. However in IUT only the student and the staff can have the chance to use this system and for laundry services only upon recognition by the Administrator in charge. After the order has been placed the laundry man will pass on schedule to collect dirty dresses. Money is deducted from monthly pocket allowance of students. IUT staff pays instantly upon delivery of their dresses. The charges for student and staff are not the same with the staff paying almost 3 times higher amount than the student. Our main aim is to avoid dress misplacement and we want to ensure Payment of laundry man. This system will have four modules which include the IUT administrator , student, staff and the laundry man.

## **CURRENT SYSTEM:**

Presently we Only have laundry man, student or IUT staff involved in this system. There is no authorization before benefiting from the laundry service which means there is less security . There is no IUT administrator controlling the system by monitoring who can have and account with priorities, that is authorization and authentication services are not existing. This system is not a computerized system and dresses are collected for wash only in some occasions and the schedule of the laundry man for dress collection is not well known in the university . Sometimes some dresses even get missing along the washing process, no restrictions and guarantee.

**OBJECTIVES:**

- We want to avoid dress misplacement by using a code that identifies the owner. This code consist of the student number and the room number together with a gabage which is generated.
- We want that laundry charges should be deducted from student allowance because in some cases students turn to leave the university without necessarily paying all their bills. This is to ensure that payment is guaranteed.
- To ensure that dresses are washed properly and not all kind of under wears will be allowed.
- Authorization before benefiting from service. This is to prevent non IUTIANS from having this services considering that the charges vary according to the category of person.
- To have a maximum control of the system by having an IUT administrator .
- User friendly system for easy navigation, checking of dress details and the order status.
- Effective and efficient system that will meet the services needed by the users.
- To have a reliable system that will do exactly what is expected from it and rapidity as well.

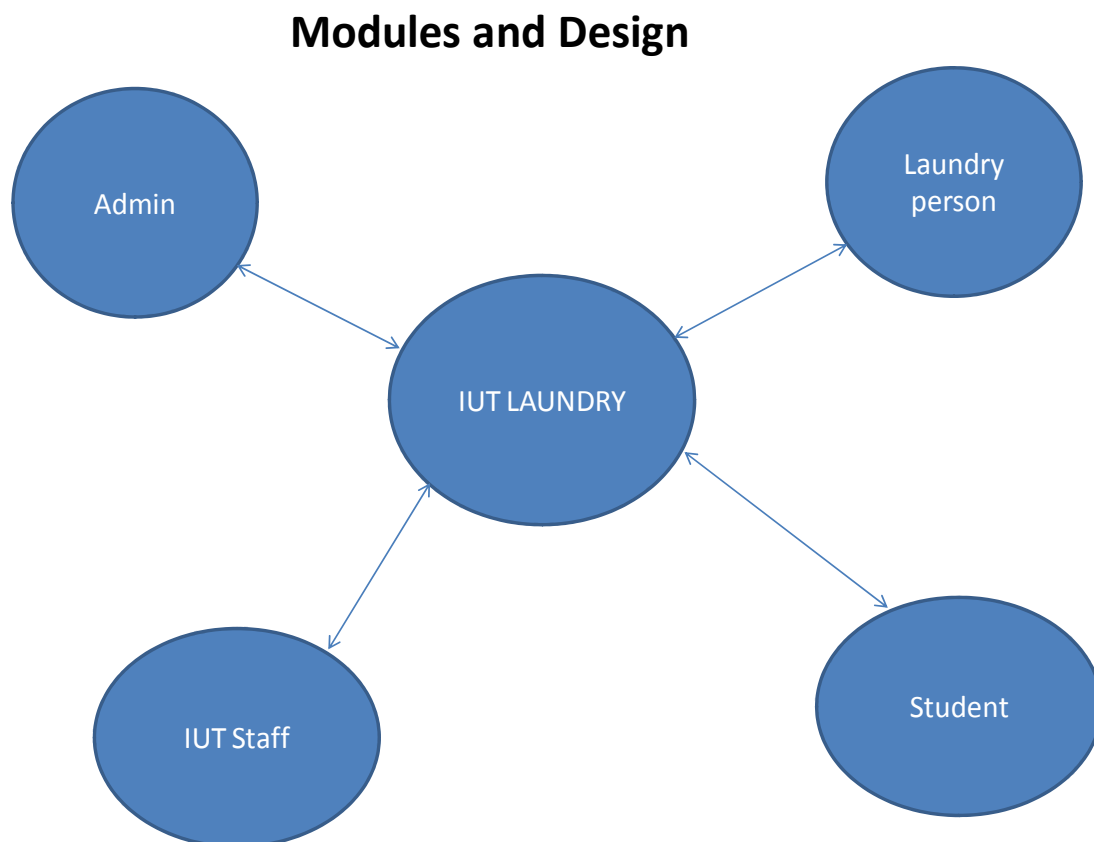
**PROPOSED SYSTEM:**

Computerized system that will allow dress submission at anytime and usage authorization. Only Student and staff of IUT can have an account.

IUT administrator controls usage of the system. Unique dress id that identifies owner. Checking if submitted dress matches order. This will be done by the laundry man. Deduction of money from pocket allowance. Updating user status about dress state and his money. Proper washing, ironing, folding and accurate delivery

### **MODULES AND DESIGN:**

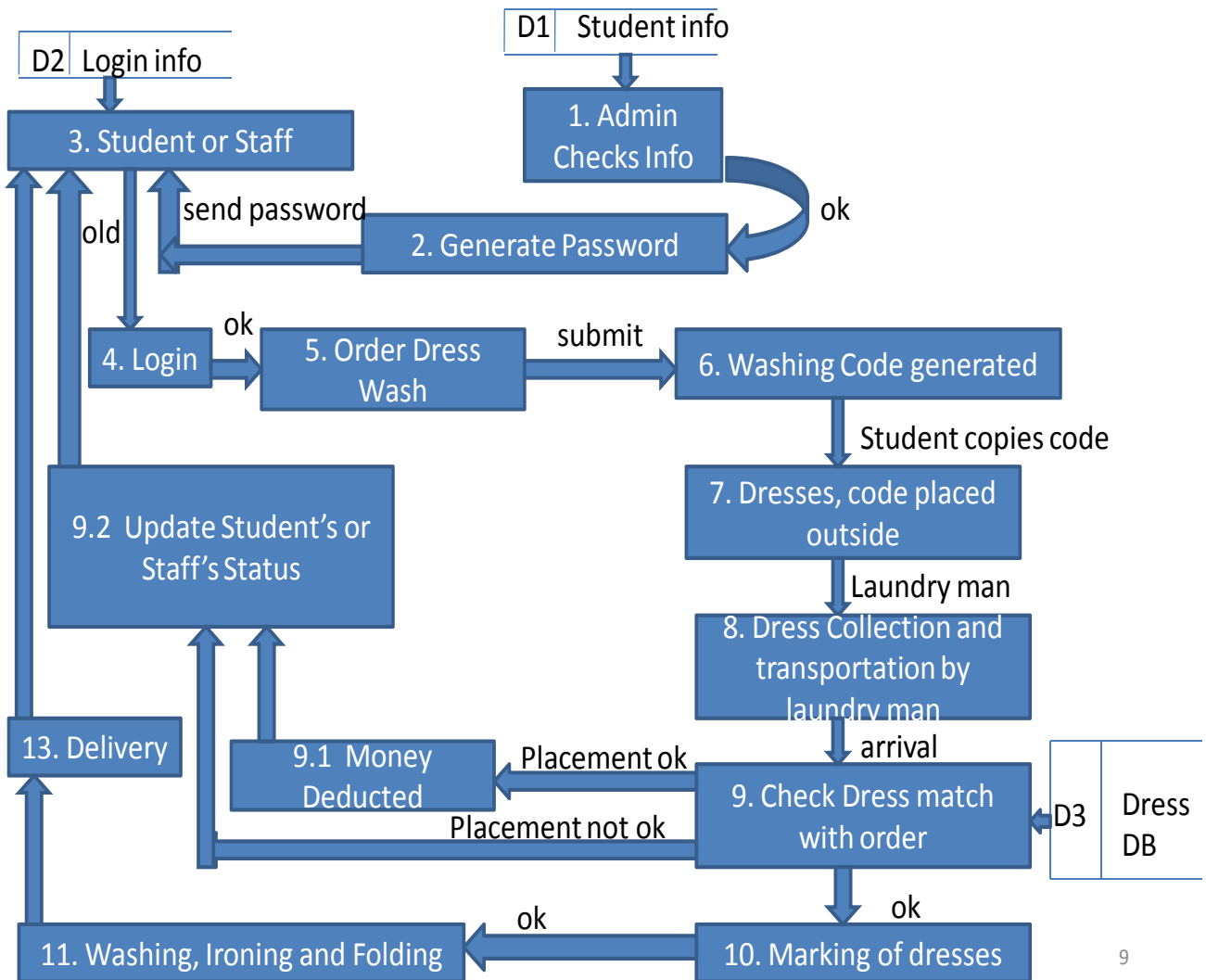
We have four modules which include the admin, student, staff and laundry man, there is interaction between all the modules and the laundry system. Below is the diagram showing the system and its modules.



## **DATA FLOW DIAGRAM:**

The data flow diagram shows the processes in chronological order of the IUT laundry

1. Admin creates new user or student and generate a password to the user.
2. The user uses the password to login with student id as username.
3. If the user decides to order dress wash then washing code will be generated which will be well know to the laundry man.
4. Dresses and code will then be put outside.
5. The dresses are then collected by the laundry man and transported.
6. Upon arrival at the laundry place the dresses are checked to see if they match with order.
7. If check is ok then money will be deducted and the wash will be ordered and the status of the user will be udated to waiting which later will be changed to ready followed by approval.
8. If there is no match between dress and order then the user dress status is updated to “rejected”.
9. At this step the dresses are been marked getting ready to be
10. Sorted, washed, iron and folded for delivery to user.

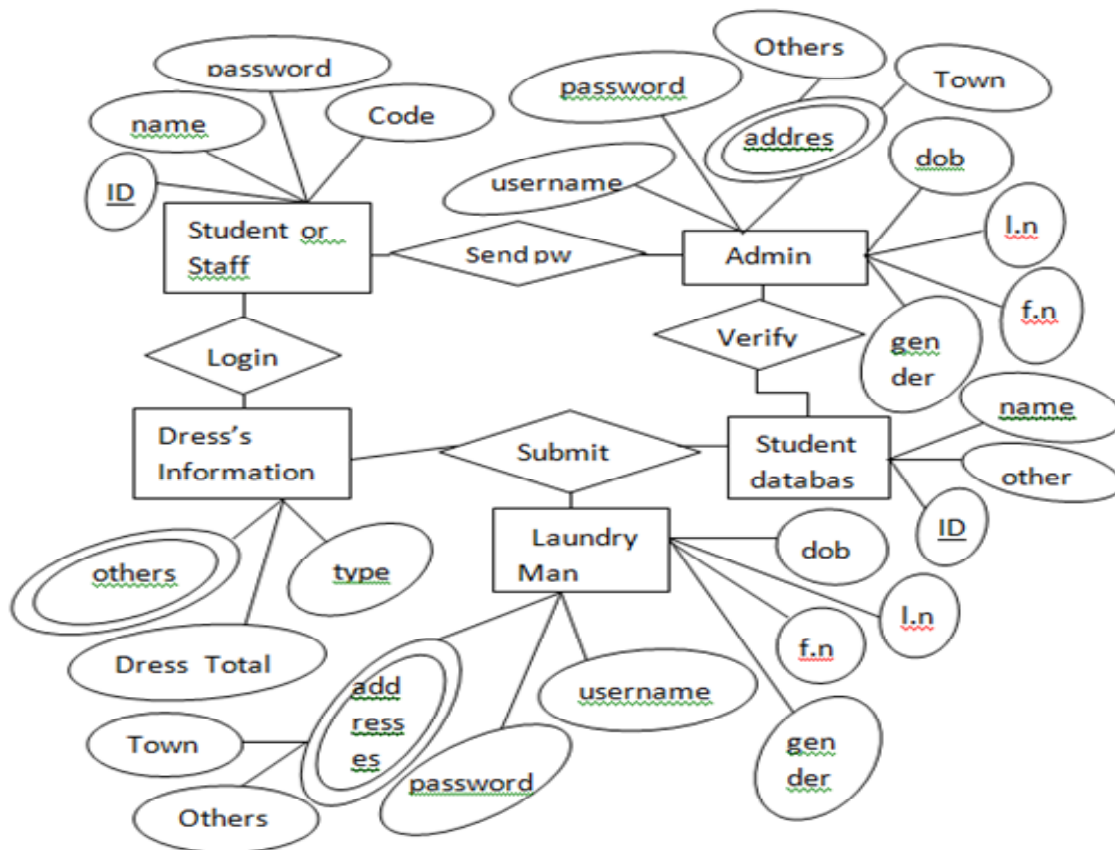




## ENTITY RELATIONSHIP DIAGRAM:

This shows the relationship between tables and their various attributes.

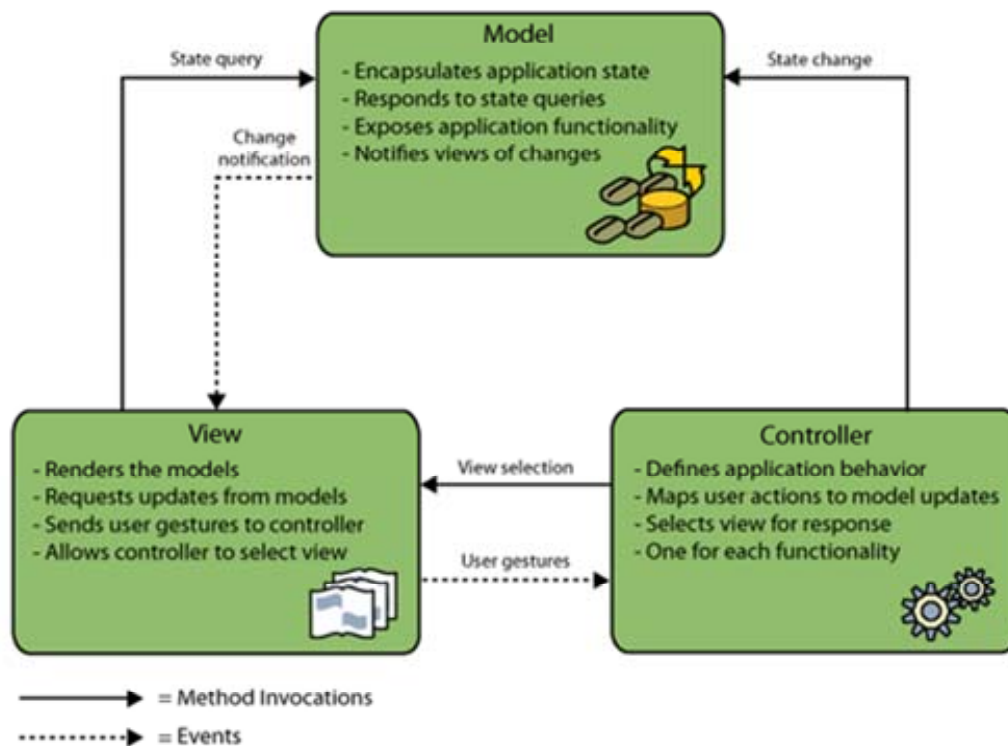
## ER Diagram



## MODEL USED:

The model used in this project is the MVC(model view controller) as seen below . This shows a clear separation of content, logic and presentation.

# Model



## FEATURES OF IUT LAUNDRY:Home page



# IUT LAUNDRY

[HOME](#) [VISITOR](#) [ABOUT US](#) [ONLINE SERVICE](#) [? HELP](#) [LOGIN](#)

WELCOME TO IUT LAUNDRY



## FEATURES OF IUT LAUNDRY: New Student

The screenshot displays the IUT LAUNDRY web application interface. At the top left is the IUT logo. The main header reads "IUT LAUNDRY". Below the header is a navigation menu with links: HOME, VISITOR, ABOUT US, ONLINE SERVICE, HELP, MAINTENANCE, and MUFIR. The main content area shows a table titled "LIST SIS" with columns for "Id", "Studentid", and "Roomnumber". A modal form titled "CREATE NEW SIS" is overlaid on the table, containing input fields for "Studentid:", "Name:", "Roomnumber:", and "Password:", along with "Save" and "Cancel" buttons. The table data is as follows:

Id	Studentid	Roomnumber
1	133412	S416
2	133417	N418
3	124311	S203
6	104309	S203
7	104307	S416

At the bottom of the table, there are navigation controls including a "1" button and a "10" dropdown menu. Below the table are buttons for "+ Create", "View", "Edit", and "Delete".

## FEATURES OF IUT LAUNDRY: Dress Oder Page

LIST DRESSINFOS		
Name	Price	Quantity
Trouser	7	0
Shirt	7	0
T-Shirt	7	0
Sando Ganji	5	0
Towel	7	0
Lungi	5	0
Pajama	7	0
Panjabi	7	0
Kabuli Suite(2 pcs)	17	0
Haji Handkerchief	5	0

## **TECHNOLOGIES IN USE:**

### **Languages:**

- **J2EE**
- **Javascript**
- **Css**
- **Sql**

### **Tools:**

- **Netbeans IDE (Version 7.3 RC2)**
- **iReport 5.5.0(JasperReport 4.5)**
- **Adobe fireworks**

### **Framework:**

- **JavaServer Faces(Mojarra 2.2.0)**
- **Java Persistence API(EclipseLink)**

### **Servers:**

- **Database:MySQL(xampp)**
- **Web Server:GlassFish 3.1**

## SECURITY:

### Java Authentication and Authorization Service(JAAS)

This separates users authentication so that they can be managed independently. The modules or Roles here include Student, staff, laundry man and admin and security will be provided according to the modules. It uses a framework and an API for the authentication and authorization of users. Security is independent of the application meaning its implementation can hardly affect the functioning of the system.

The **JAAS PROCESS** is done as below and at the end the security will be generated in the web.xml file and with some modification in the persistence.xml.

- Open GlassFish Domain Admin Console.
- Create a New Connection Pool, enter same info as in your mysql server.
- Create a JDBC resource, add connection pool
- Create a security realm and choose encryption algorithm.
- Configure security properties in web.xml file using the realm security name.
- Define roles and bind these roles to Security Constraints.

## JAAS CLASSES AND INTERFACES

**Javax.security.auth.login.LoginContext:** which is for creating a Subject. A subject here can be a user, entity.

**Java.security.Principal:** A principal represents the face of a subject. It encapsulates features or properties of a subject.

**Javax.security.auth.spi.LoginModule:** Retrieves password from the database and compare it to the password supplied password by the user.

WORK DONE UNTILL NOW:

The workdone is presented based on the modules, and is as follows:

### **Admin:**

- Can login and change password
- Can create new user and generate password.
- Can do CRUD on user.

### **Student or Staff:**

- Can login and change password.
- Can order dress wash, preview or edit order.
- Can view the status of their dress and cost.



**Laundry Man:**

- Can login and change password.
- Can approve, reject order, updates dress status of user.
- Can deliver dress.

**FUTURE PLAN:**

- Better design to make the system more attractive and real using all the styling technologies and good templates.
- Internationalization of the system so that it can support both English and Bangla which will be very helpful to the users.
- Security is very important and after everything must have been done, the JAAS security will be implemented.
- Laundry man schedule for dirty dress collection which will be a dynamic schedule.

**THANK YOU AND SEE YOU IN THE FINAL PRESENTATION INSHA ALLAH**