Software Design Specification

Admission Test Result

Revision 2.0

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Revision History

Version	Name	Reason For Changes	Date
2.0	*Mohimenol Islam Fahim* *Md Abu Sakib* *Md Borhan Uddin*	*Initial Revision*	*3/10/2019*

Approved By

Approvals should be obtained for project manager, and all developers working on the project.

Name	Signature	Department	Date
Md. Hasnat Riaz Assistant Professor		Computer Science & Telecommunication Engineering	

1. Introduction

1.1 Purpose

This software is made for admission test result processing.

1.2 System Overview

In this project, we can maintain admission result and students can search their result. There have many administrator whose can maintain this process and they can produce result as input in the system.

1.3 Design Map

There has two parts in this software. One is for administrator and another part is for students. Administrator can insert input, delete input, update input. Student can search there result and get the result. They can't delete or update the result.

2. Design Consideration

2.1 System Environment

HTML & CSS for software interface.
PHP as background server program.
MYSQL for database.

2.2 Design Methodology

We always follow SDLC(Software Development Life Cycle) model. The last version of this application, we follow SDLC Waterfall Model. As the Waterfall Model illustrates the software development process in a linear sequential flow; hence it is also referred to as a Linear-Sequential Life

Cycle Model. Requirements->System Design->Implementation->Deployment of System->Maintenance

2.3 Risks and Volatile Areas

There is no risk in this project. So, this project much secure.

3. Architecture

In this applications, the frontend site uses languages HTML5,CSS and backend site uses language PHP. We use the database MySQL. The whole application, we make OOP(Object Oriented Programming) conception. There have many php file as like as admin.php , database.php, index.php etc.

4. Database Schema

4.1 Tables, Fields and Relationships

Provide a description of any new tables, fields and relationships that need to be created for the design.

4.1.1 Databases

MySQL for development and testing..

4.1.2 New Tables

List any new tables that will be needed, for each one including table name, table description, and related tables.

4.1.3 New Fields(s)

List any new tables that will be needed, for each one including table name, table description, and related tables.

Table Name	Field Name	Data Type	Allow Nulls	Field Description
Login Table	username	Varchar(40)	NO	This field contains the administrator user id.
Login Table	password	Varchar(40)	NO	This field contains the administrator user password.
Result Table	id	Varchar(5)	NO	This field contains the candidate id.
Result Table	name	Varchar(40)	NO	This field contains the candidate name.
Result Table	result	Varchar(40)	NO	This field contains the candidate result.
Result Table	mark	Int(40)	NO	This field contains the candidate mark.
Result Table	rank	Varchar(60)	YES	This field contains the candidate rank.

4.1.4 Fields Change(s)

For each field change (such as data types, required/not required, or renaming), please complete a row of the following table. (Insert additional rows as needed.)

Table Name	Field Name	What to change?

4.1.5 All Other Changes

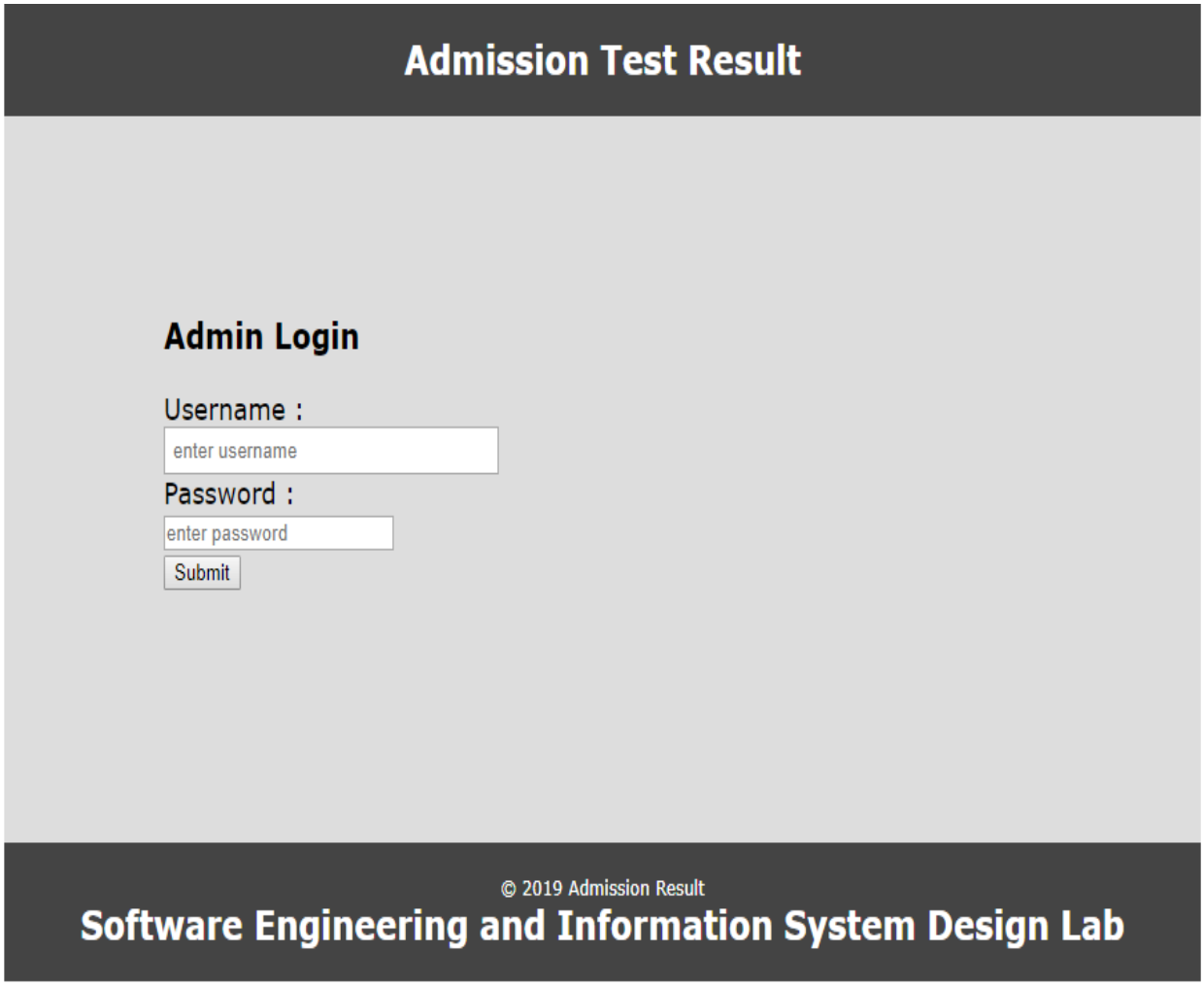
If any other changes are requested (stored procedures, indexes, relationships, security settings, DTS packages, maintenance plans, etc), please describe what is needed here.

4.2 Data Migration

(Optional) - Provide a description of how existing data should be migrated to new tables and fields.

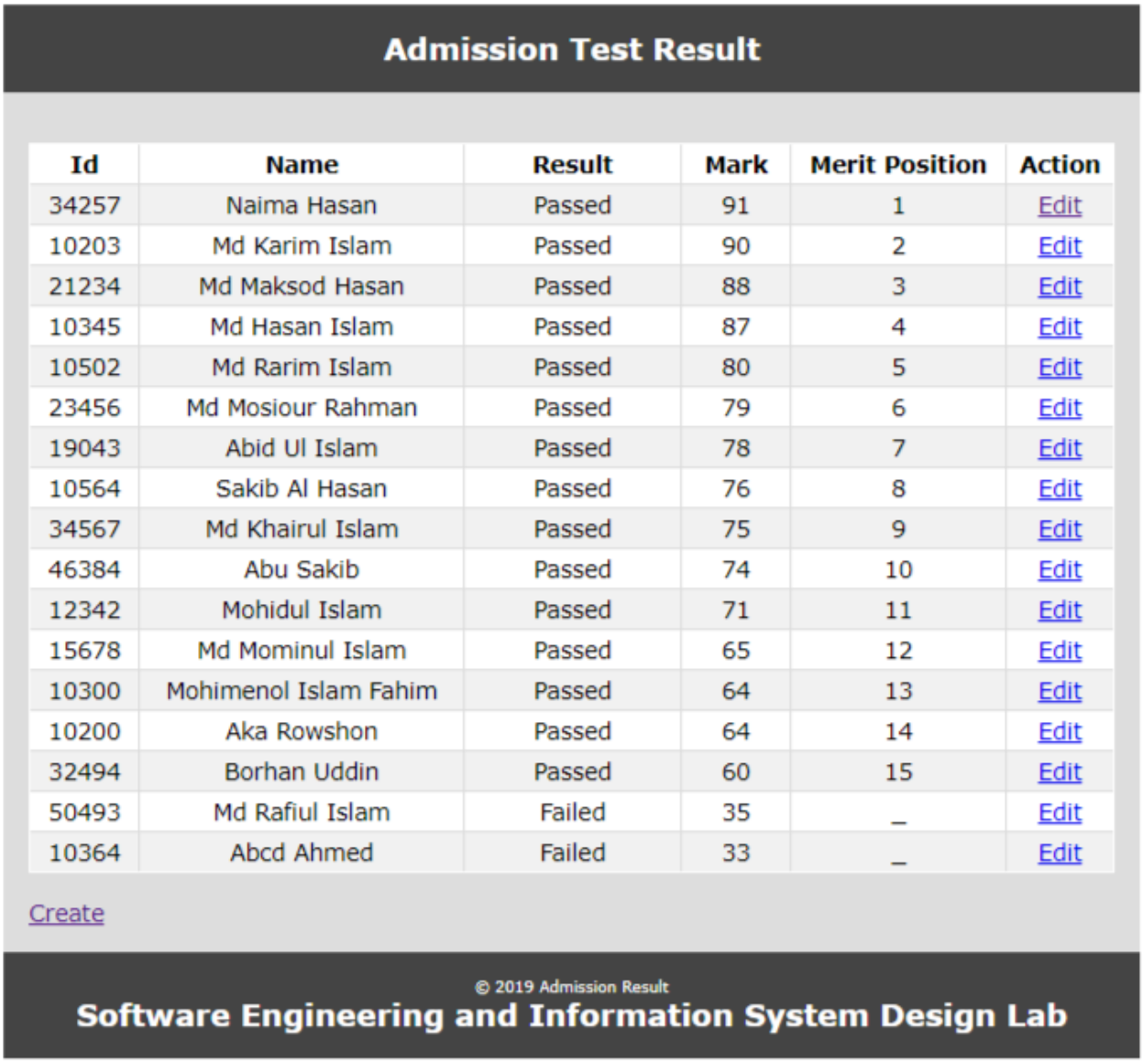
5 Administrator Interface Design

5.1 Administrator Login Page



In this page, the administrator create a user id on MySQL database and set a strong password for security purpose. Then clink on the submit button and log in the main data table.

5.2 Administrator Data Table

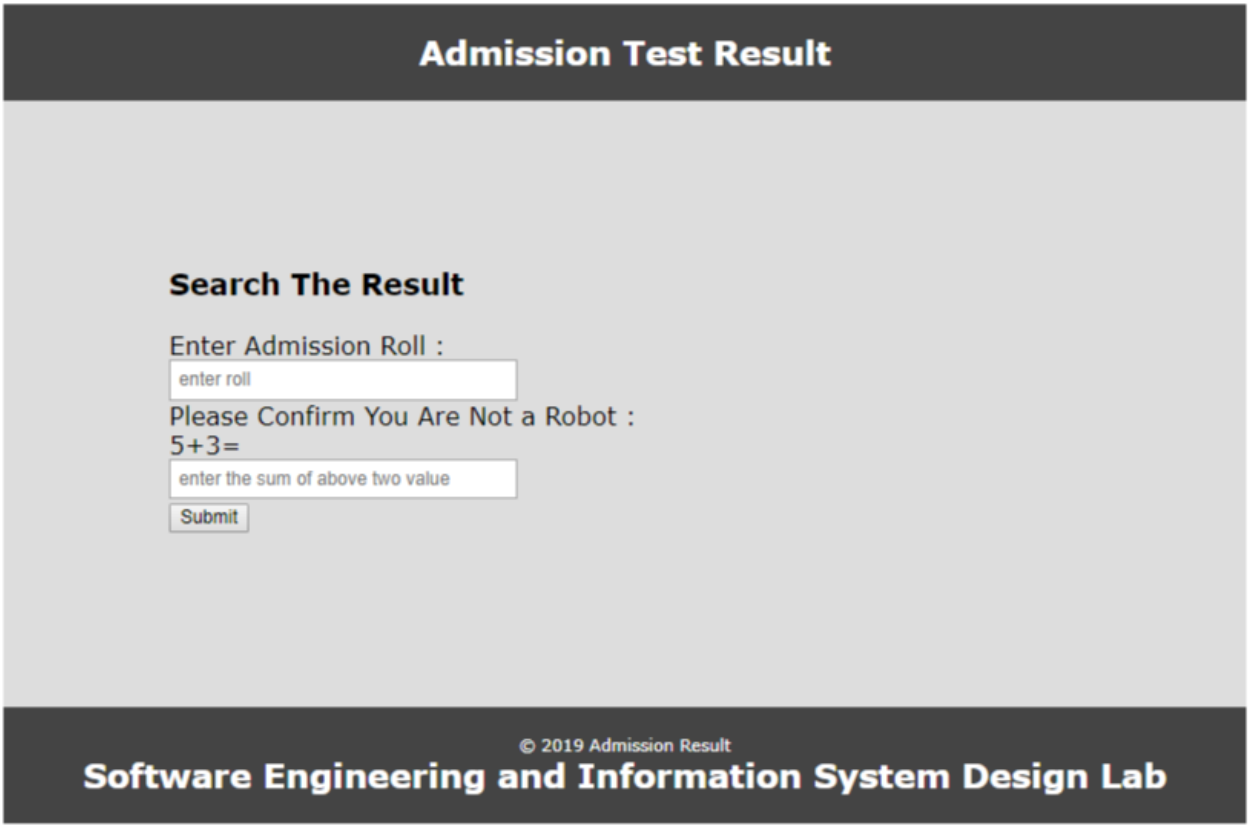


The administrator can control these data. He can also modify the data as like as update and delete in the Edit button. The Edit button can show the candidates user name and mark. In this page, there have another option insert data in the MySQL database button is Create. Data insert in this data

table as like as data table format. If any data format is not match as this data table, there have an error in this insert process.

6. User Interface Design

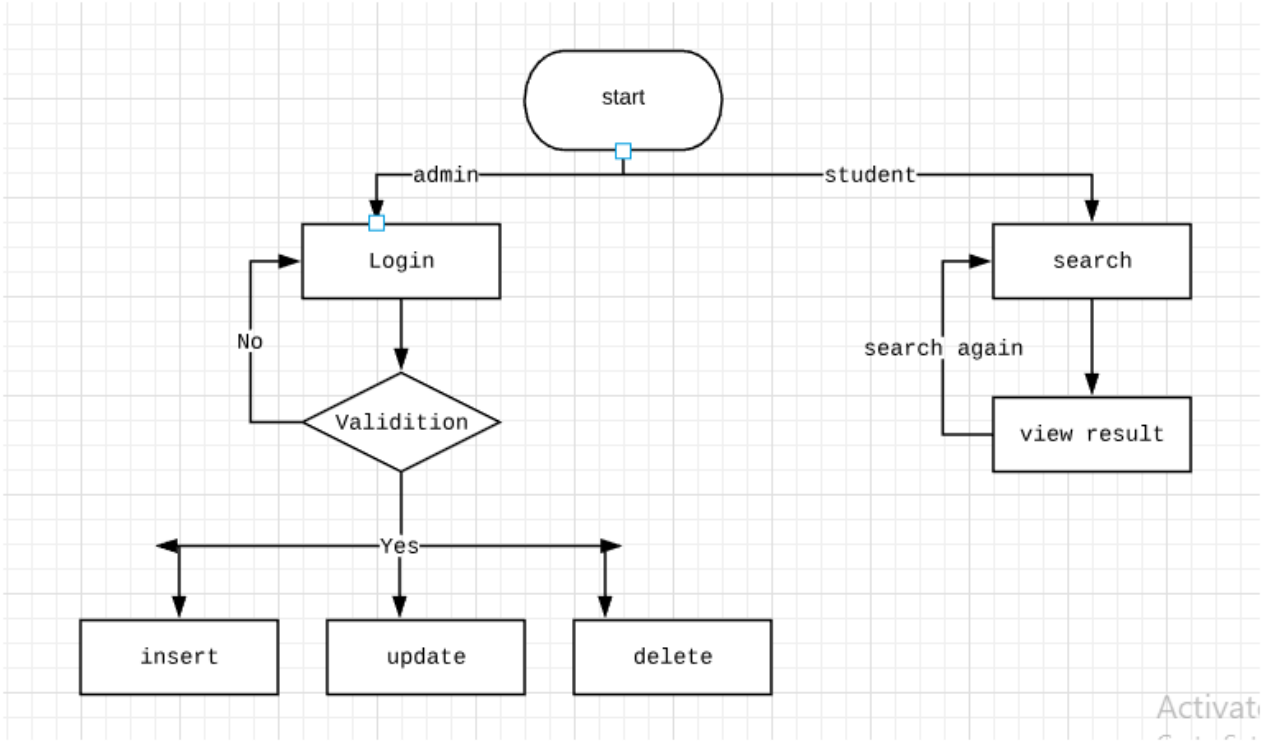
This section provides user interface design descriptions that directly support construction of user interface screens.



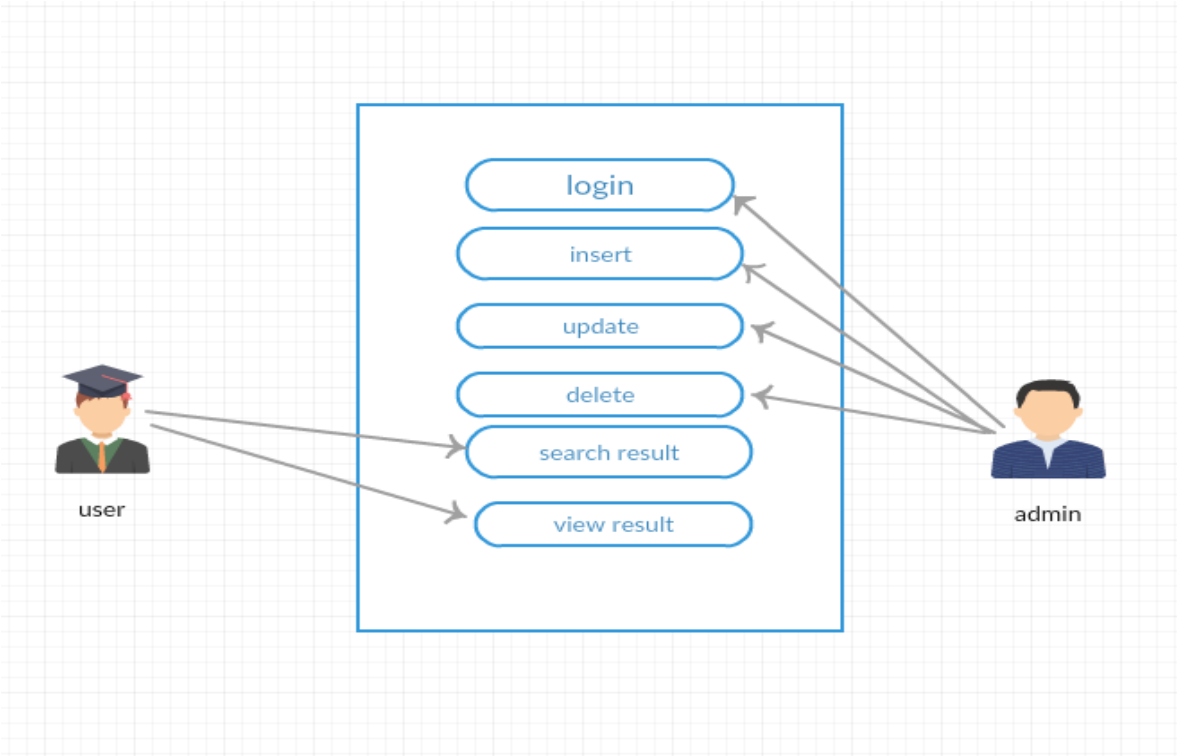
In this page, the candidate enter their roll number on the roll number section and another section is verification that the candidate is not a robot.
Then click on the submit button and go to the result page.
The result page contain the result of the candidate mark, passed or failed and rank of this exam.

7. Design Phase

7.1 Activity Diagram



7.2 Use case diagram



8. Other Nonfunctional Requirements

Performance Requirements

- ·Scalability: System should be able to handle a number of users. For e.g.

Handling around thousand users at the same time.

- Usability: Simple user interfaces that a human can understand.
- Speed: Speed of the system should be responsive i.e. response to a particular action should be available in short period of time. Updating the account takes few seconds for the changes if the entry is not starred.