**CURFEW E- PASS MANAGEMENT SYSTEM**

A mini-project report submitted to

**DEPARTMENT OF INFORMATION TECHNOLOGY**

in partial fulfillment of the requirements for the award of the Degree of

**MASTER OF SCIENCE IN COMPUTER SCIENCE**

Submitted by

1. **JOHNSON**

**(D. No: 19PCS901)**

Under the guidance of

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**DEPARTMENT OF INFORMATION TECHNOLOGY**

**St. JOSEPH’S COLLEGE (AUTONOMOUS)**

**Special Heritage Status awarded by UGC**

**Nationally Accredited at A++ Grade Cycle IV by NAAC**

**College with Potential for Excellence by UGC**

**Tiruchirappalli – 620002.**

**November 2020.**

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**St. JOSEPH’S COLLEGE (AUTONOMOUS)**

**TIRUCHIRAPPALLI - 620002.**



**CERTIFICATE**

This is to certify that the mini-project work titled **“CURFEW E- PASS MANAGEMENT SYSTEM”** is a bonafide report of **A. JOHNSON**, **D. NO. 19PCS901** submitted to Department of Information Technology in partial fulfillment of the requirements for the award of the Degree of **Master of Science in Computer Science** under my guidance and supervision from **August to November 2020.**

**Head of the Department Project Guide**

**(**Dr. P JOSEPH CHARLES**)** (Prof. S. ANTONY JOSEPH RAJ)

**Submitted for the Viva-Voce on\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Internal Examiner External Examiner**

**Date: Date:**

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**JOHNSON A**

**(D.NO:19PCS901)**

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1. **INTRODUCTION**

**1.1 About the project:**

E-Pass needs to be carried with you when you are travelling as you will be stopped by personnel to check your details and if you are permitted to travel during the lockdown. some business sectors and essential activities will resume reviving the economic slump. There will also be permitted for the movement of people in case of emergency or essential activities such as medical treatment. An e-Pass is an indicator that you have permission to step outside and travel due to the nature of your work. You need to fill in your details and provide necessary documents. The verification will happen by NOTIFICATION to your registered phone number.

|  |  |  |
| --- | --- | --- |
|  |  |  |

1. **SYSTEM STUDY**

|  |  |
| --- | --- |
|  |  |

**2.1 Existing System**

* Any individual/group can apply for the movement pass using this framework.
* Use an active mobile number to receive notification.
* After successful submission of your application, an application reference number will get generated.
* The movement e-pass will contain your name, address.
* Keep a soft/hard copy of the e-pass while traveling and show it to the security personnel if asked.

**2.2 Disadvantages of Existing System**

* Existing system is a manual process in this one has to note all the details of visitors on register
* By this process it is time consuming process, When ever administrator needs visitor’s details of particular time and date
* it will take time to give permission
* Except valid reason e-pass will not provide

**2.3 Proposed System**

* The objectives for creating this system are to reduce the paperwork and to maintain the document.
* Accurate maintenance of accurate and consistent records on E-PASS
* To remove the duplicity of the pass and allow the verified people to cross the premises.
* In the earlier system, there were a lot of duplicities done by the people which are going to be removed by using this system.

.

**2.4 Advantages of Proposed System**

* It provides “better and efficient” service to people
* Approvers can approve a gate pass From anywhere
* It will provide secured data base, accessed by authorized users
* Administrator can search details according to his needs
* We can generate reports easily

**2.5 Problem Definition and Description**

Develop and design a new website wherein users/ admin can view and pass details and acquire more information about the pass in a user-friendly manner. This website will be an online portal for the users to know about the pass and to get information of the curfew e- pass management system.

**User login:**

This contains the basic information of the users. Any individual/group can apply for the movement pass using this framework. User need to give a request to the admin. The user can update, delete the user details.

**Admin login**

This typical section is for the admin of the website to add/update/delete information from the portal. Admin only can approve the request and other details are available to increase the productivity. It is an online database for the e-pass users as per request . The administrator can modify the list of user.

**Pass details:**

In this module we can view the details of approved pass, rejected pass, pending pass and history of the all the pass. If admin give the approval user can get a notification. Admin only can add the user and delete the user. Dashboard we can view pass type, category and user details.

**3. SYSTEM ANALYSIS**

**Packages Selected**

Front end : **PHP**

Back end : **MySQL**

**Hardware Resources**

Processor : **Pentium –III**

Speed : **1.1 Ghz**

RAM :  **256 MB (min)**

Hard Disk :  **60 GB**

**Software Resources**

Operating System : **Windows 10**

Web Server : **Xampp 7.2.1**

Language : **PHP**

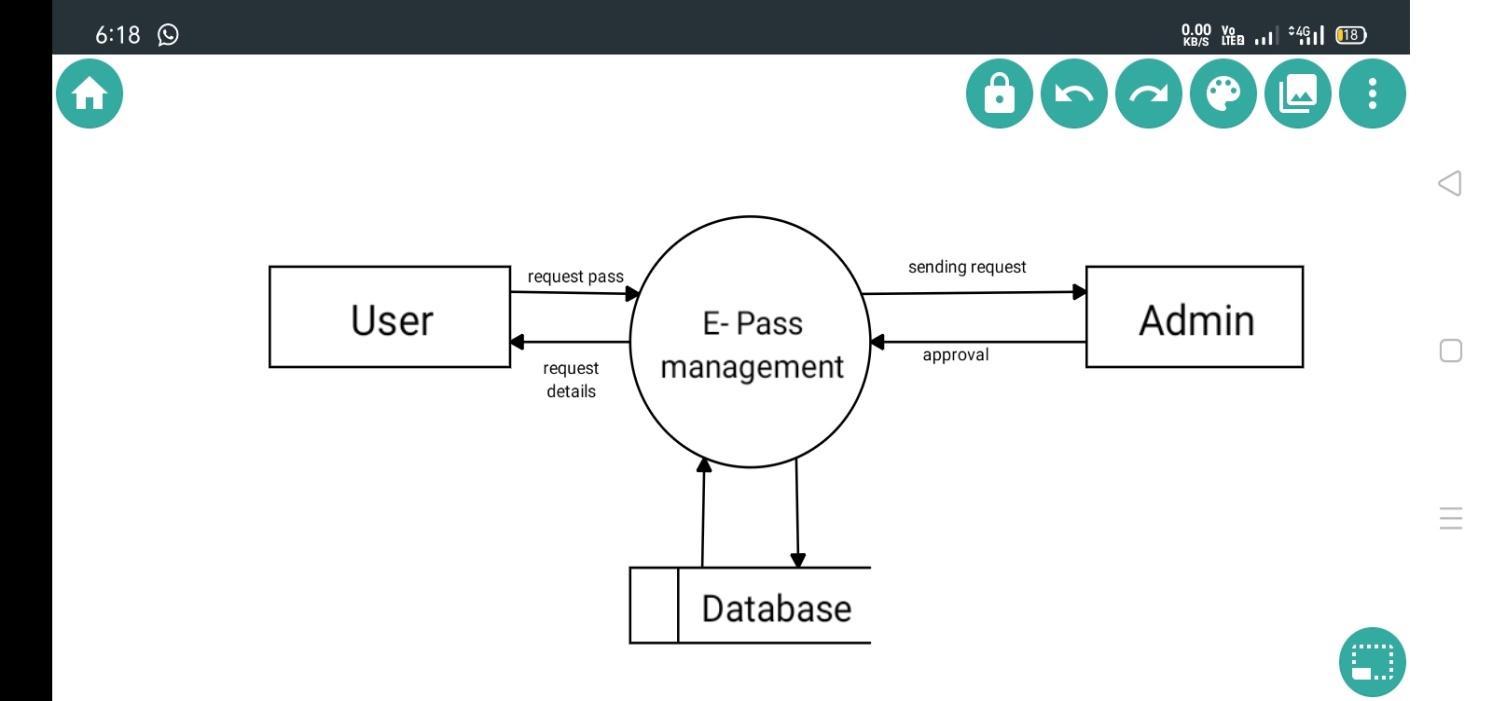
Database : **MySQL**

**3.2 Data Flow Diagram**

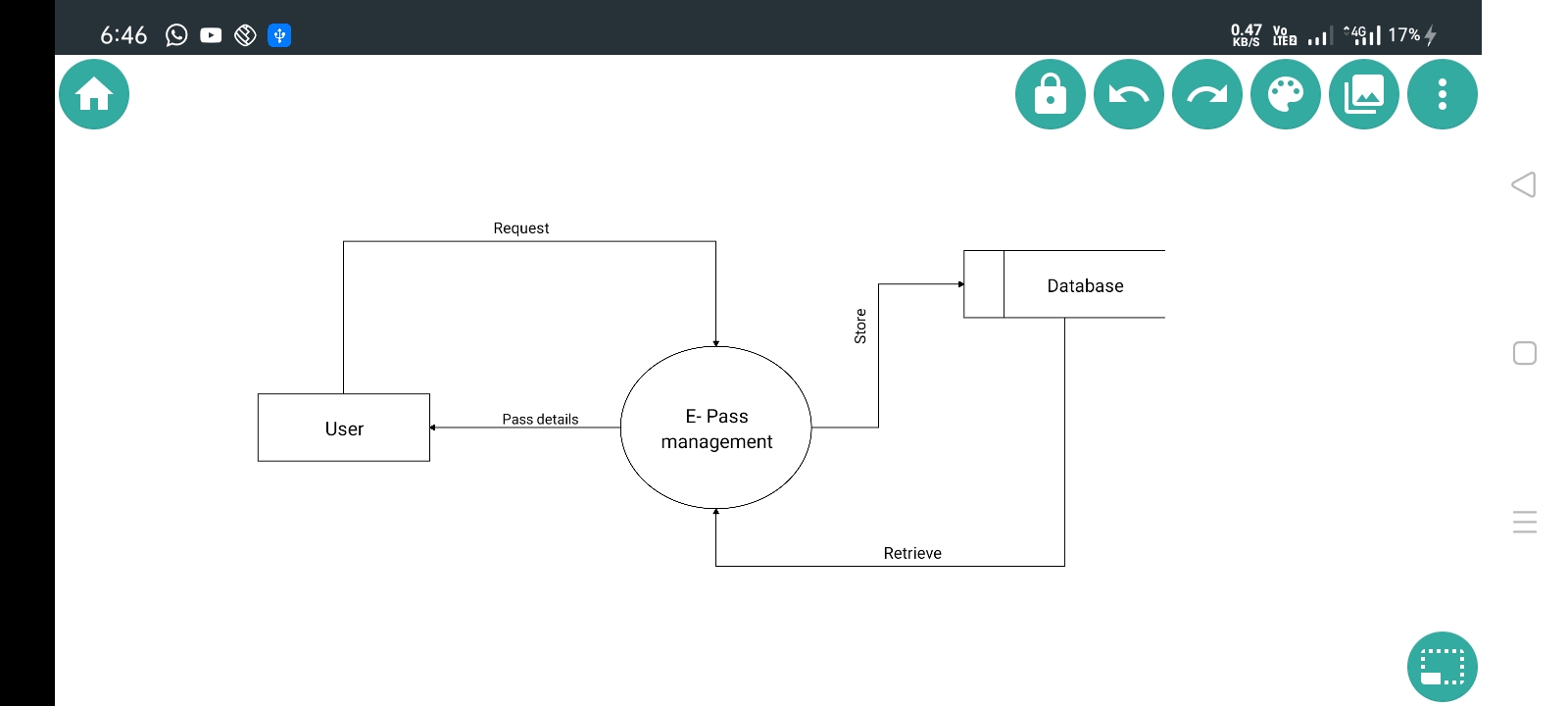
A Data Flow Diagram (DFD) is a graphical representation of the “flow” of data through an information system. DFD’s can be used for visualization of data processing. Using a DFD, users can visualize how the system will operate, what the system will accomplish, and how the system will be implemented.

|  |  |
| --- | --- |
| **Symbols** | **Description** |
|  | A rectangle defines an entity |
|  | A circle shows process within the system |
|  | An arrow shows the flow of information |
| http://cpanel.stpaulsscience.org/gceict/specifications/ocr/unit3/sdlc/dfd/store.jpg | A data store shows the holding place of the information |

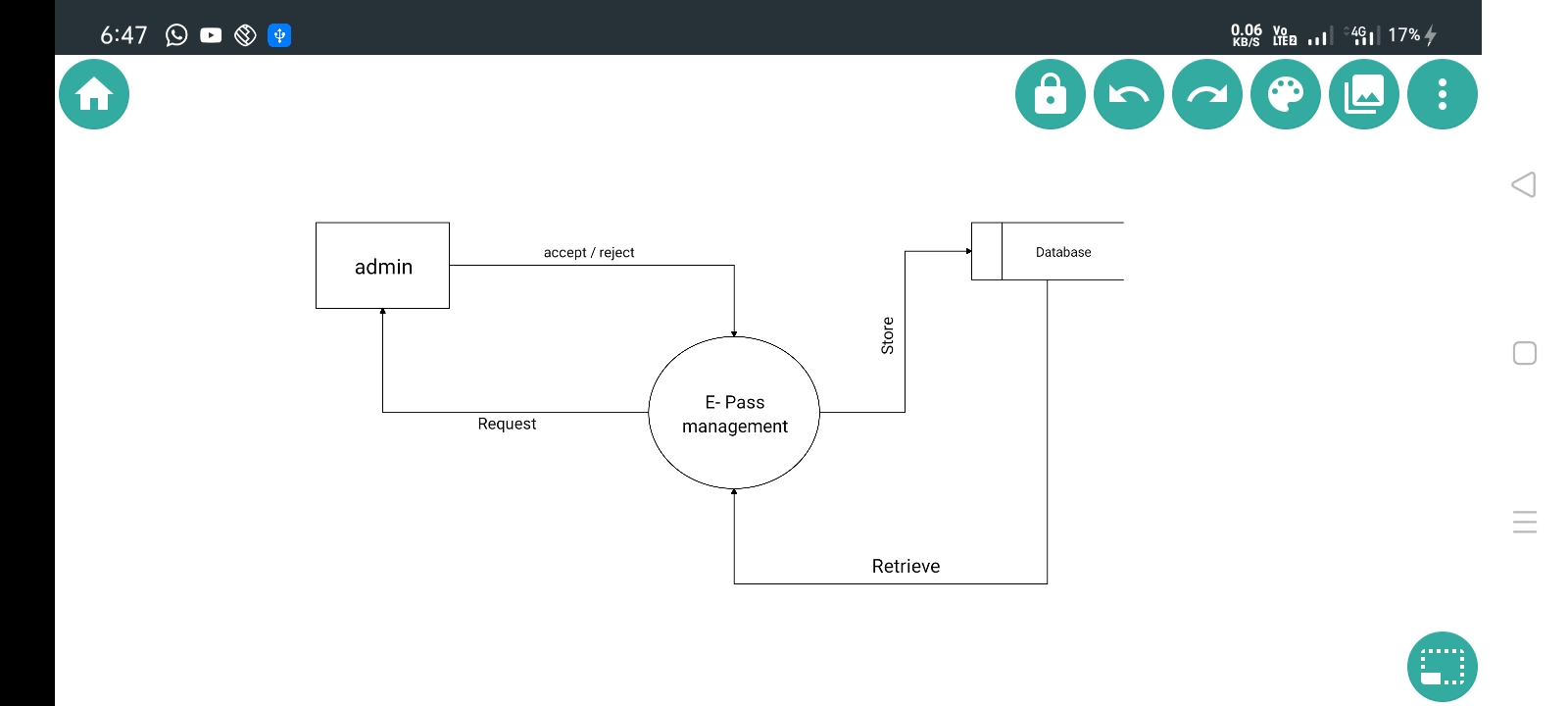
**LEVEL 0:**



**LEVEL 1:**

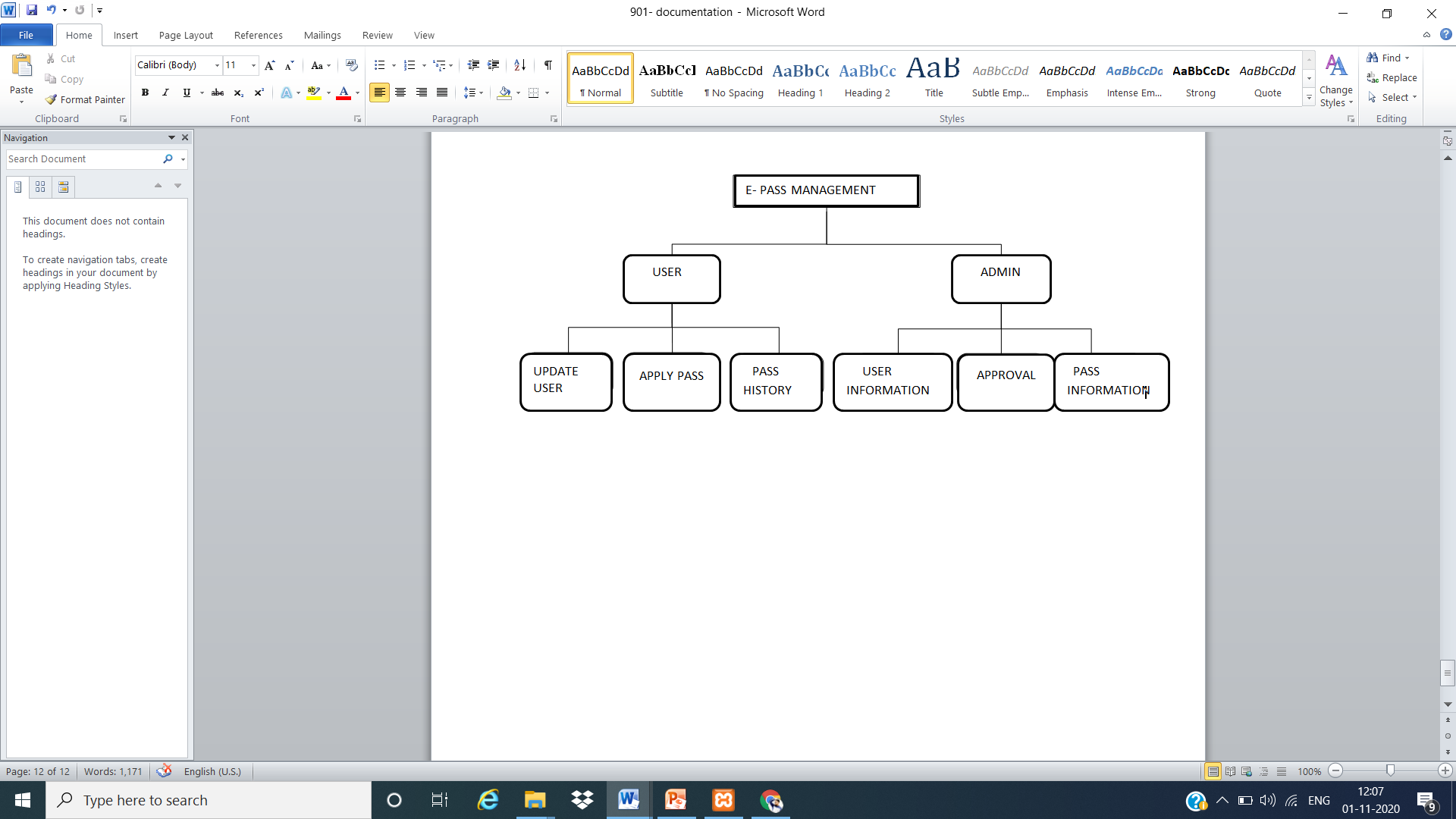


**LEVEL 2:**



**4. SYSTEM DESIGN**

**4.1 Architectural Design**



**4.2 I/O Form Design**

**Form Name: Admin**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | User Name | 821082503  Johnson | | Phone Number | john@gmail.com | | Email | Approved | | Pass | 01/11/2020 | | Date |  |   Submit |

**Form Name:** Password Recovery

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | User ID | 821082503  007 | | Phone Number | \*\*\*\*\*\*\*\*\*\*\*\*\* | | New Password |  | | Submit |  | |

**Form Name:** UserInformation

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | Name | john | | Number | R007 | | Pass Type | Group | | Phone Number | 821082503 | | Address | d/ 18 john Street | | From Date | 21/11/2020 | | To Date | 21/11/2020 |   Submit |

**4.3 Tables**

**Table Name:** user details

**Table Description:** This table is used to store user details

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Constraint** |
| User\_ID | Varchar | 10 | Primary Key |
| User\_Name | Varchar | 30 | Not Null |
| Ph\_No | Int | 11 | Not Null |
| Email | Varchar | 20 | Not Null |
| Pass type | Varchar | 10 | Not Null |
| Date | Date | 8 | Not Null |
| Status | Varchar | 10 | Not Null |

**Table Name:** Admin

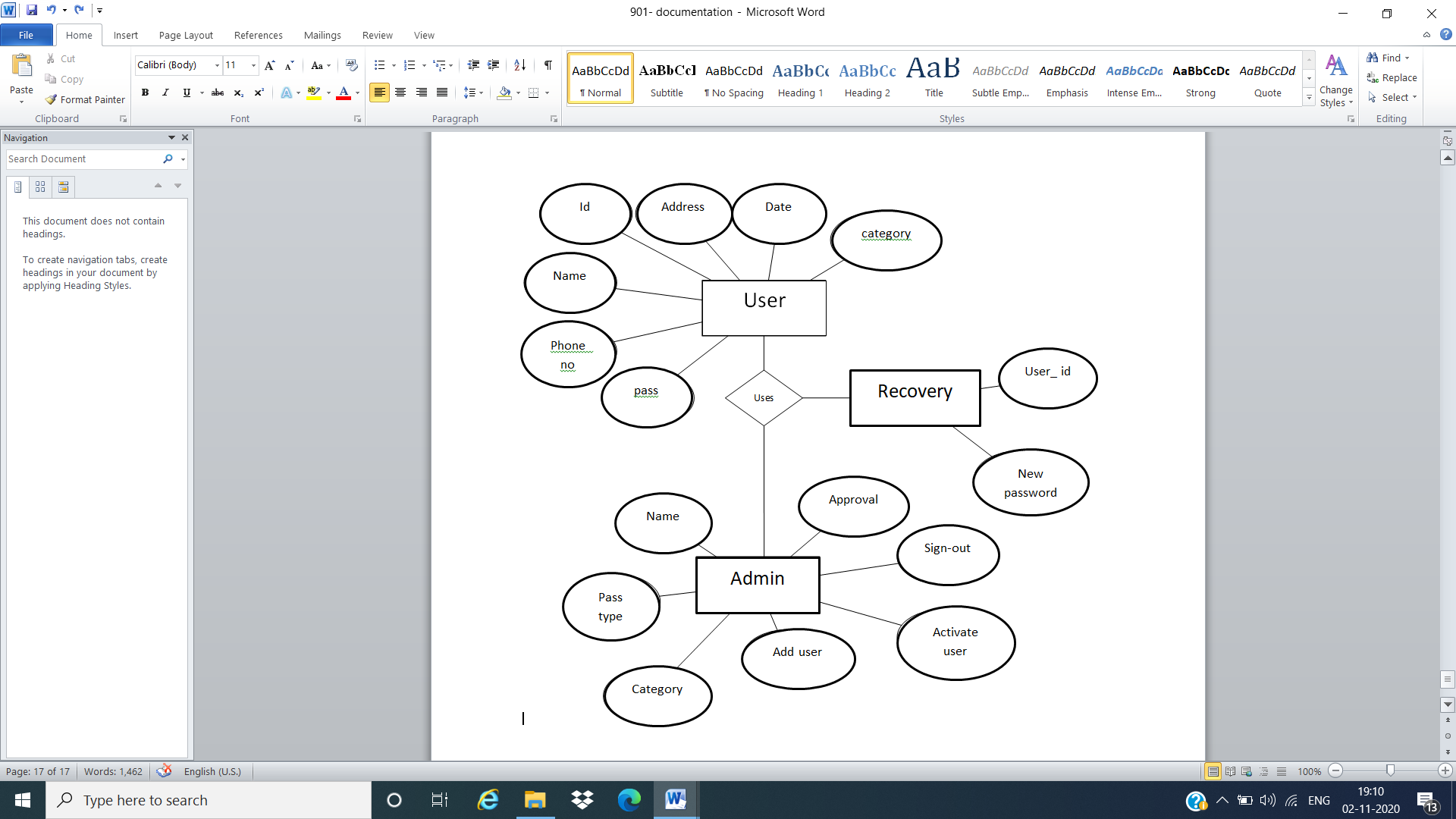
**Table Description:** This table is used to admin details

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Constraint** |
| admin\_Code | Varchar | 10 | Primary Key |
| admin\_Name | Varchar | 30 | Not Null |
| Designation | Varchar | 10 | Not Null |
| Ph\_No | Varchar | 10 | Not Null |
| Approval | Varchar | 20 | Not Null |
| Rejected | Date | 8 | Not Null |
| Waiting List | Date | 8 | Not Null |

**4.4 ER Diagram**

An ER (Enity Relationship) Diagram is a data model for describing the data or information aspects of a business domain or its process requirements, in an abstract way that lends itself to ultimately being implemented in a database such as a relational database. The main components of ER models are entities (things) and the relationships that can exist among them.

|  |  |
| --- | --- |
| **Symbols** | **Description** |
|  | A rectangle defines an entity |
|  | An ellipse shows the attributes |
|  | An arrow shows the flow of information |
|  | An diamond shows the relationship between two entities |
|  | An underlined ellipse shows the primary key attributes |

**Entity Relationship Diagram**

**4.5 Data Dictionary**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Table Name** | **Description** | **Sample Value** |
| User\_ID | Varchar | User details | User ID | 001 |
| User\_Name | Varchar | User details | Name of the user | Johnson |
| Ph\_No | Int | User details | Phone number | 99955 59999 |
| Email | Varchar | User details | Email address | [email@email.com](mailto:email@email.com) |
| Pincode | Int | User details | Pincode | 001 |
| Date | Date | User details | Requested date | 21-12-2020 |
| Status | Varchar | User details | Status of appointment | Pending |
| Admin\_Code | Varchar | Admin details | Admin code | E001 |
| Admin\_ Name | Varchar | Admin details | Admin name | Doss |
| Designation | Varchar | Admin details | Designation | Admin |
| Ph\_No | Varchar | Admin details | Phone number | 9925031985 |
| Approval | Varchar | Admin details | Approval of user | Approved |
| Rejected | Varchar | Admin details | Rejected of user | Rejected |
| Waiting list | Varchar | Admin details | Waiting list of user | Pending |
| User id | Varchar | Recovery | Password recovery id | 001 |
| New password | Varchar | Recovery | New password | asjjohnson |

**4.6 NORMALIZATION**

When we design database system, it may become necessary to decompose a relation into several smaller relations to avoid the pitfalls like,

* Eliminating redundant data, which are same in more than one table).
* Ensure data dependencies make sense (only storing related data in a table)

Both of these worthy goals as they reduce the amount of space a database consumer and ensure that is logically stored.

**Normalization Procedure**

The process of normalization involves three steps. After each step the database confirms from the termed as “Normal Form”. Generally, the “Third Normal Form” is required for a database to be said as fully normalized.

**Before Normalization**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **uId** | **Name** | **Address** | **pnumber** | **Email** | **PASS ID** |
| 01 | Saravanan | villupuram | 9876543552 | [saravan@gmail.com](mailto:saravan@gmail.com) | 1001 |
| 02 | Johnson | Chennai | 8556434535 | john[@gmail.com](mailto:muruga@gmail.com) | 1005 |
| 03 | Edison | Trichy | 8654352746  7402185231 | [edi@gmail.com](mailto:edi@gmail.com) | 1004 |
| 04 | Santhosh | Kovai | 9765753345 | [santho@gmail.com](mailto:santho@gmail.com) | 1008 |

**4.5.1 First Normal Form**

Moving data into separate tables where the data in each table is of similar type and giving each table a primary key a unique label identifier. Each field has atomic values.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **uId** | **Name** | **Place** | **pnumber** | **Email** | **PASS ID** |
| 01 | Saravanan | Villupuram | 9876543552 | [saravan@gmail.com](mailto:saravan@gmail.com) | 1001 |
| 02 | Johnson | Chennai | 8556434535 | john[@gmail.com](mailto:muruga@gmail.com) | 1005 |
| 03 | Edison | Trichy | 8654352746 | [edi@gmail.com](mailto:edi@gmail.com) | 1004 |
| 03 | Edison | Trichy | 7402185231 | edi[@gmail.com](mailto:manoj@gmail.com) | 1004 |
| 04 | Santhosh | Kovai | 9765753345 | [santho@gmail.com](mailto:santho@gmail.com) | 1008 |

**4.5.2 Second Normal Form**This entails taking out data’s only dependent on a part of the key. Each key directly depends on the primary key

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **uId** | **Name** | **Place** | **pnumber** | **Email** |
| 01 | Saravanan | Villupuram | 9876543552 | [saravan@gmail.com](mailto:saravan@gmail.com) |
| 02 | Johnson | Chennai | 8556434535 | john[@gmail.com](mailto:muruga@gmail.com) |
| 03 | Edison | Trichy | 8654352746 | [edi@gmail.com](mailto:edi@gmail.com) |
| 04 | Santhosh | Kovai | 9765753345 | [santho@gmail.com](mailto:santho@gmail.com) |

|  |  |  |
| --- | --- | --- |
| **uId** | **Pass id** | **Place** |
| 01 | 1001 | Vilipuram |
| 02 | 1005 | Chennai |
| 03 | 1004 | Trichy |
| 03 | 1004 | Trichy |
| 04 | 1008 | Kovai |

.**4.5.3Third Normal Form**This means getting rid of anything in the tables that doesn’t depend solely on the primary key. Remove the redundant field.

|  |  |
| --- | --- |
| **Pass id** | **Place** |
| 1001 | Vilupuram |
| 1005 | Chennai |
| 1004 | Trichy |
| 1008 | Kovai |

**5. SYSTEM DEVELOPMENT**

**5.1 Functional Documentation**

The project titled “Curfew E- Pass Management System ” has following modules

* User Login
  + My profile
  + Change password
  + Pass
  + Sign- Out
* Password Recovery
  + Email id
  + New Password
* Admin Login
  + Dash board
  + Category
  + Pass Type
  + E- Pass

**User Login**

This section contains the basic information of the E - pass of what an end user would want to know of that Pass. User can give the request to the admin. User can view the pass details. They can change their password.

**Password Recovery**

The user can change the password. If user want to change the password user need to give the email id. User detail and user id is must to change the password

**Admin Login**

In this module admin can know he request details. Admin can add and manage the category. Admin can enter the pass types. Admin can add user and give the permission to the user. They can active and inactive the users. In the pass module approved users, rejected users, waiting list users and history of the all the approval admin can view.

**Pass Type**

In this module there are two type one is individual and another one is group. If people want to go individually they can apply individual. If they are going with lots of people they can apply group type.

**Pass Management**

Pass management have an approval, rejected, waiting for approval and waiting list. If user has a valid reason admin can approve the pass. They don’t have a valid reason admin will reject the form. Admin is not in the online it will shows waiting for the approval.

**5.2 Special Features of the Language**

**Mark-up Language – HTML**

HyperText Markup Language, commonly referred to as HTML, is the standard markup language used to create web pages. It is written in the form of HTML elements consisting of tags enclosed in angle brackets (like <html>). HTML tags most commonly come in pairs like <h1> and </h1>, although some tags represent empty elements and so are unpaired, for example <img>. The first tag in a pair is the start tag, and the second tag is the end tag (they are also called opening tags and closing tags).

Web browsers can read HTML files and compose them into visible or audible web pages. Browsers do not display the HTML tags and scripts, but use them to interpret the content of the page. HTML describes the structure of a website semantically along with cues for presentation, making it a markup language, rather than a programming language.

HTML elements form the building blocks of all websites. HTML allows images and objects to be embedded and can be used to create interactive forms. It provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. It can embed scripts written in languages such as JavaScript which affect the behavior of HTML web pages.

Web browsers can also refer to Cascading Style Sheets (CSS) to define the look and layout of text and other material. The World Wide Web Consortium (W3C), maintainer of both the HTML and the CSS standards, encourages the use of CSS over explicit presentational HTML.

**Elements**

HTML documents imply a structure of nested HTML elements. These are indicated in the document by HTML tags, enclosed in angle brackets thus: <p> In the simple, general case, the extent of an element is indicated by a pair of tags: a "start tag" <p> and "end tag" </p>. The text content of the element, if any, is placed between these tags. Tags may also enclose further tag markup between the start and end, including a mixture of tags and text. This indicates further, nested, elements, as children of the parent element.

**Programming Language - PHP**

PHP is a server-side scripting language designed for web development but also used as a general-purpose programming language. Originally created by Rasmus Lerdorf in 1994,the reference implementation of PHP (powered by the Zend Engine) is now produced by The PHP Group. While PHP originally stood for Personal Home Page, it now stands for PHP: Hypertext Preprocessor, which is a recursive backronym.

PHP code can be simply mixed with HTML code, or it can be used in combination with various templating engines and web frameworks. PHP code is usually processed by a PHP interpreter, which is usually implemented as a web server's native module or a Common Gateway Interface (CGI) executable. After the PHP code is interpreted and executed, the web server sends resulting output to its client, usually in form of a part of the generated web page; for example, PHP code can generate a web page's HTML code, an image, or some other data.

PHP has also evolved to include a command-line interface (CLI) capability and can be used in standalone graphical applications.

PHP as it's known today is actually the successor to a product named PHP/FI. Created in 1994 by Rasmus Lerdorf, the very first incarnation of PHP was a simple set of Common Gateway Interface (CGI) binaries written in the C programming language. Originally used for tracking visits to his online resume, he named the suite of scripts "Personal Home Page Tools," more frequently referenced as "PHP Tools." Over time, more functionality was desired, and Rasmus rewrote PHP Tools, producing a much larger and richer implementation. This new model was capable of database interaction and more, providing a framework upon which users could develop simple dynamic web applications such as guestbooks. In June of 1995, Rasmus » released the source code for PHP Tools to the public, which allowed developers to use it as they saw fit. This also permitted - and encouraged - users to provide fixes for bugs in the code, and to generally improve upon it.

In September of that year, Rasmus expanded upon PHP and - for a short time - actually dropped the PHP name. Now referring to the tools as FI (short for "Forms Interpreter"), the new implementation included some of the basic functionality of PHP as we know it today. It had Perl-like variables, automatic interpretation of form variables, and HTML embedded syntax. The syntax itself was similar to that of Perl, albeit much more limited, simple, and somewhat inconsistent

**Session**

Session support in PHP consists of a way to preserve certain data across subsequent accesses. This enables you to build more customized applications and increase the appeal of your web site.

**Include**

It has the ablity to include another php file into the existing file thereby providing many possibilities to reduce redundant code, and to include functions from other pages.

**PHP Quality Assurance Initiative**

The PHP Quality Assurance Initiative was set up in the summer of 2000 in response to criticism that PHP releases were not being tested well enough for production environments. The team now consists of a core group of developers with a good understanding of the PHP code base. These developers spend a lot of their time localizing and fixing bugs within PHP. In addition there are many other team members who test and provide feedback on these fixes using a wide variety of platforms.

**Database - MySQL**

MySQL is (as of July 2013) the world's second most widely used relational database management system (RDBMS) and most widely used open-source RDBMS. It is named after co-founder Michael Widenius's daughter, My. The SQL acronym stands for Structured Query Language.

The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety of proprietary agreements. MySQL was owned and sponsored by a single for-profit firm, the Swedish company MySQL AB, now owned by Oracle Corporation.

MySQL is a popular choice of database for use in web applications, and is a central component of the widely used LAMP open source web application software stack (and other 'AMP' stacks). LAMP is an acronym for "Linux, Apache, MySQL, Perl/PHP/Python." Free-software-open source projects that require a full-featured database management system often use MySQL.

**MySQL Extension**

This is the original extension designed to allow you to develop PHP applications that interact with a MySQL database. The mysql extension provides a procedural interface and is intended for use only with MySQL versions older than 4.1.3. This extension can be used with versions of MySQL 4.1.3 or newer, but not all of the latest MySQL server features will be available.

**PHP's mysqli Extension**

The mysqli extension, or as it is sometimes known, the MySQL improved extension, was developed to take advantage of new features found in MySQL systems versions 4.1.3 and newer. The mysqli extension is included with PHP versions 5 and later.

The mysqli extension has a number of benefits, the key enhancements over the mysql extension being:

* Object-oriented interface
* Support for Prepared Statements
* Support for Multiple Statements
* Support for Transactions
* Enhanced debugging capabilities
* Embedded server support

As well as the object-oriented interface the extension also provides a procedural interface. The mysqli extension is built using the PHP extension framework, its source code is located in the directory ext/mysqli.

**PDO**

PHP Data Objects, or PDO, is a database abstraction layer specifically for PHP applications. PDO provides a consistent API for your PHP application regardless of the type of database server your application will connect to. In theory, if you are using the PDO API, you could switch the database server you used, from say Firebird to MySQL, and only need to make minor changes to your PHP code.

While PDO has its advantages, such as a clean, simple, portable API, its main disadvantage is that it doesn't allow you to use all of the advanced features that are available in the latest versions of MySQL server. For example, PDO does not allow you to use MySQL's support for Multiple Statements. PDO is implemented using the PHP extension framework, its source code is located in the directory ext/pdo.

**phpMyAdmin**

phpMyAdmin is a free and open source tool written in PHP intended to handle the administration of MySQL with the use of a web browser. It can perform various tasks such as creating, modifying or deleting databases, tables, fields or rows; executing SQL statements; or managing users and permissions.

Tobias Ratschiller, then an IT consultant and later founder of the software company Maguma, started to work on a PHP-based web front-end to MySQL in 1998, inspired by MySQL-Webadmin. He gave up the project (and phpAdsNew, of which he was also the original author) in 2000 because of lack of time. By that time, phpMyAdmin had already become one of the most popular PHP applications and MySQL administration tools, with a large community of users and contributors. In order to coordinate the growing number of patches, a group of three developers registered The phpMyAdmin Project at SourceForge and took over the development in 2001.

Features provided by the program include:

* Web interface
* MySQL database management
* Import data from [CSV](http://en.wikipedia.org/wiki/Comma-separated_values) and [SQL](http://en.wikipedia.org/wiki/SQL)
* Export data to various formats: [CSV](http://en.wikipedia.org/wiki/Comma-separated_values), [SQL](http://en.wikipedia.org/wiki/SQL), [XML](http://en.wikipedia.org/wiki/XML), [PDF](http://en.wikipedia.org/wiki/Portable_Document_Format) (via the [TCPDF](http://en.wikipedia.org/wiki/TCPDF) library), ISO/IEC 26300 - OpenDocument Text and Spreadsheet, Word, Excel, [LaTeX](http://en.wikipedia.org/wiki/LaTeX" \o "LaTeX) and others
* Administering multiple servers
* Creating PDF graphics of the database layout
* Creating complex queries using Query-by-Example (QBE)
* Searching globally in a database or a subset of it
* Live charts to monitor MySQL server activity like connections, processes, CPU/Memory usage, etc.

**5.3 Pseudo code**

**User Login**

Step1: Start.

Step 2:Enter details.

Step 3:Click submit.

Step 4:Then user details stored

Step 5: Home page is displayed.

Step 6: Stop.

**Password Recovery**

Step1: Start.

Step 2: Enter user id

Step 3: User can modify the detail.

Step 4: User can Create New Password.

Step 5: click back to home.

Step 6: Stop.

**Check Status**

Step1: Start.

Step 2: Enter details.

Step 3: Click submit.

Step 4: Then user details stored

Step 5: Home page is displayed.

Step 6: Stop.

**6. TESTING**

Testing is a series of different tests that whose primary purpose is to fully exercise the computer based system. Although each test has a different purpose, all work should verify that all system element have been properly integrated and performed allocated function. Testing is the process of checking whether the developed system works according to the actual requirement and objectives of the system.

The philosophy behind testing is to find the errors. A good test is one that has a high probability of finding an undiscovered error. A successful test is one that uncovers the undiscovered error. Test cases are devised with this purpose in mind. A test case is a set of data that the system will process as an input. However the data are created with the intent of determining whether the system will process them correctly without any errors to produce the required output.

**6.1 Types of Testing Done**

* Unit testing
* Integration testing
* Validation testing

**Unit Testing**

All modules were tested and individually as soon as they were completed and were checked for their correct functionality. In all modules testing the process and loops and functions are processing correctly.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case Id** | **Description** | **Action** | **Test Data** | **Expected Result** |
| 1 | To test whether each page is functioning properly | 1. Open a page that has not been completely coded | Remove certain tags or CSS | Browser will display page anomalies |

**Integration Testing**

The entire project was split into small program; each of these single programs gives a frame as an output. These programs were tested individually at last all these programs where combined together by creating another program where all these constructors were used. It give a lot of problem by not functioning is an integrated manner. The user interface testing is important since the user has to declare that the arrangements made in frames are convenient and it is satisfied. When the frames where given for the test, the end user gave suggestion.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case Id** | **Description** | **Action** | **Test Data** | **Expected Result** |
| 1 | To test whether links between pages are functioning properly | 1. Disable links on the pages  2. Remove or rename pages | Remove hyper link or rename pages | Browser should display “page not found” |

**Validation Testing**

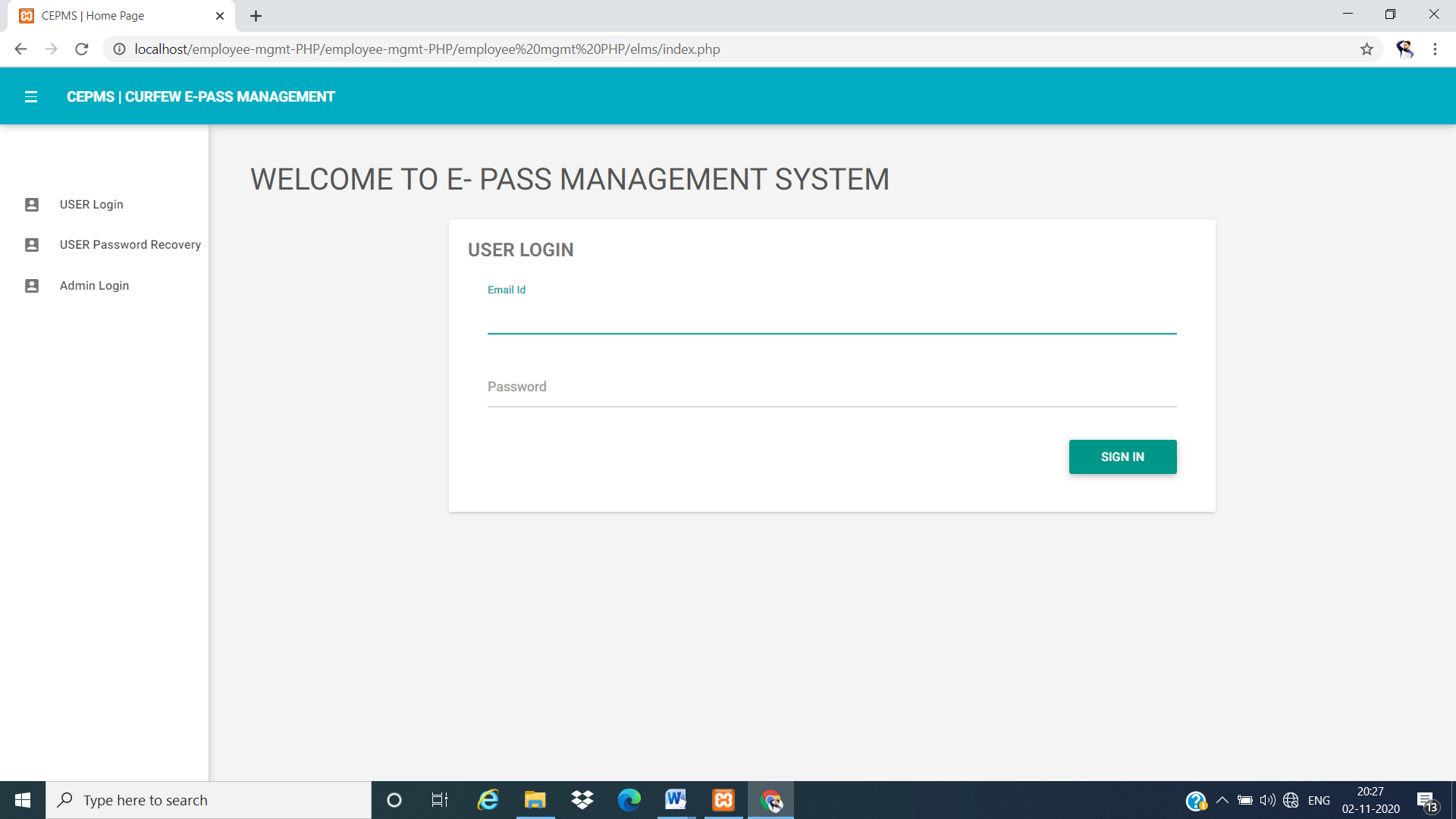
In each module the required field validation is tested. Validation succeeds when the software function in a manner that can be reasonably Accepted by the user. Determining if the system complies with the requirements and performs functions for which it is intended and meets the organization’s goals and user needs.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case Id** | **Description** | **Action** | **Test Data** | **Expected Result** |
| 1 | To test whether error message is displayed when user information | 1. Open the Pass Form  2. Don’t enter anything in the textboxes  3. Click submit button | User name  = “ ” | System should display error message “please enter name” |
| 2 | To test whether error message is displayed when wrong email format is entered | 1. Open the user/details/ user Form  2. create a new admin/request/user  3. type wrong email format  3. Click Submit button | email = “ri$)” | System should display error message “Please enter valid email address” |

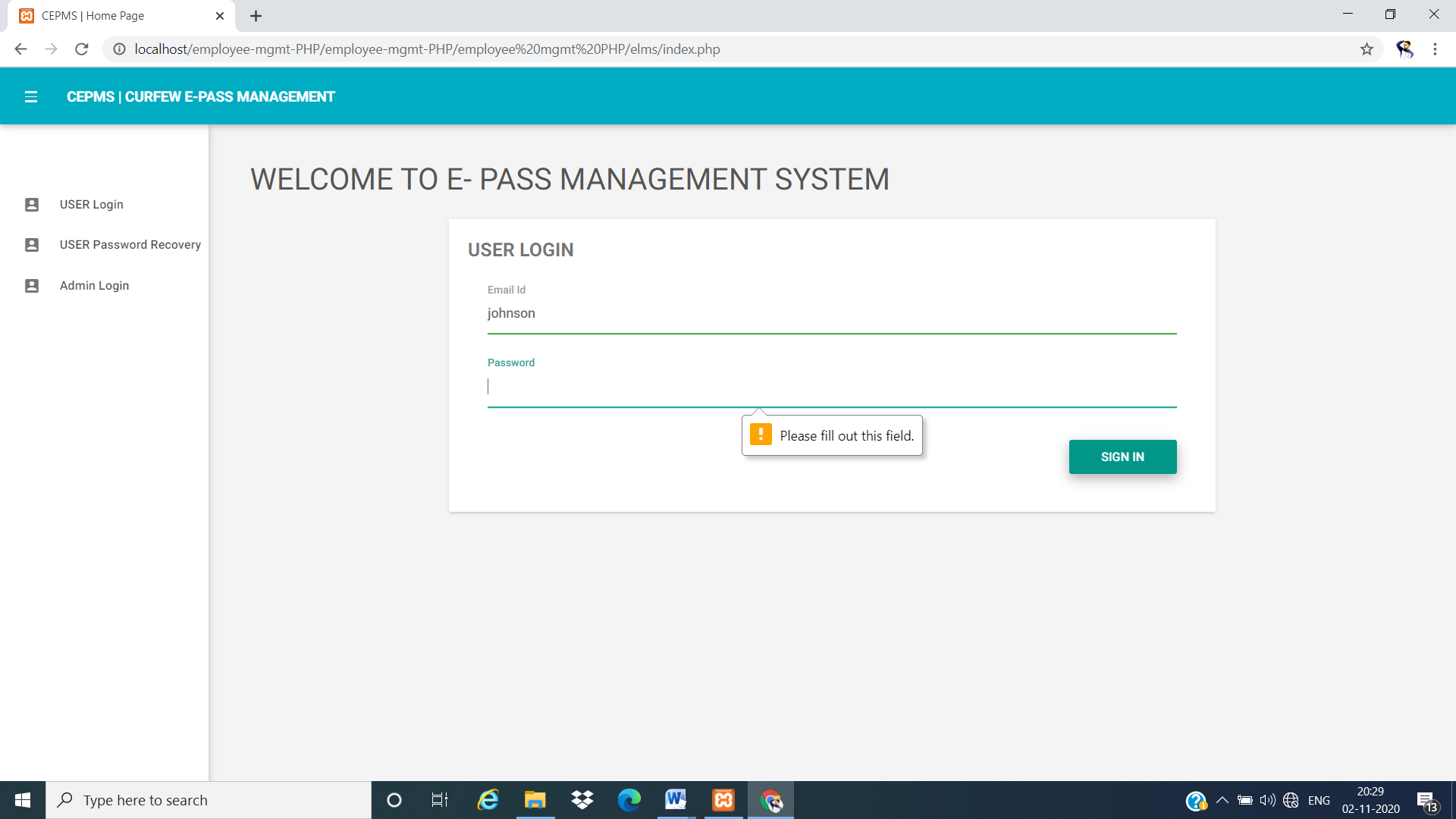
**6.2 Test Data and Output**

**Form name:** User Login

Before:



After:



**7. USER MANUAL**

**7.1 Hardware Requirements**

Processor : **Intel Core i3**

Processor Speed : **1.5 Ghz**

Main Memory : **4GB RAM**

Hard Disk : **1 TB Hard Disk**

Keyboard : **105 keys**

Mouse : **Optical**

Monitor : **LCD 15’ screen**

**7.2Software Requirements**

Database : **MySQL**

Web Browser : **Chrome**

IDE **: Notepad++**

Web Server : **XAMPP**

* 1. **Installation Procedure**

● Installing Wamp Server To start the installation process, you need to open the folder where you saved the file and double-click the installer file. A security warning window will open, asking if you are sure you want to run this file. Click Run to start the installation process.

● Next you will see the Welcome to The Wamp Server Setup Wizard screen. Click Next to continue the installation.

● The next screen you are presented with is the License Agreement. Read the agreement, check the radio button next to I accept the agreement, then click Next to continue the installation.

● Next you will see the Select Destination Location screen. Unless you would like to install Wamp Server on another drive, you should not need to change anything. Click Next to continue.

● The next screen you are presented with is the Select Additional Tasks screen. You will be able to select whether you would like a Quick Launch icon added to the taskbar or a Desktop icon created once installation is complete. Make your selections, and then click Next to continue.

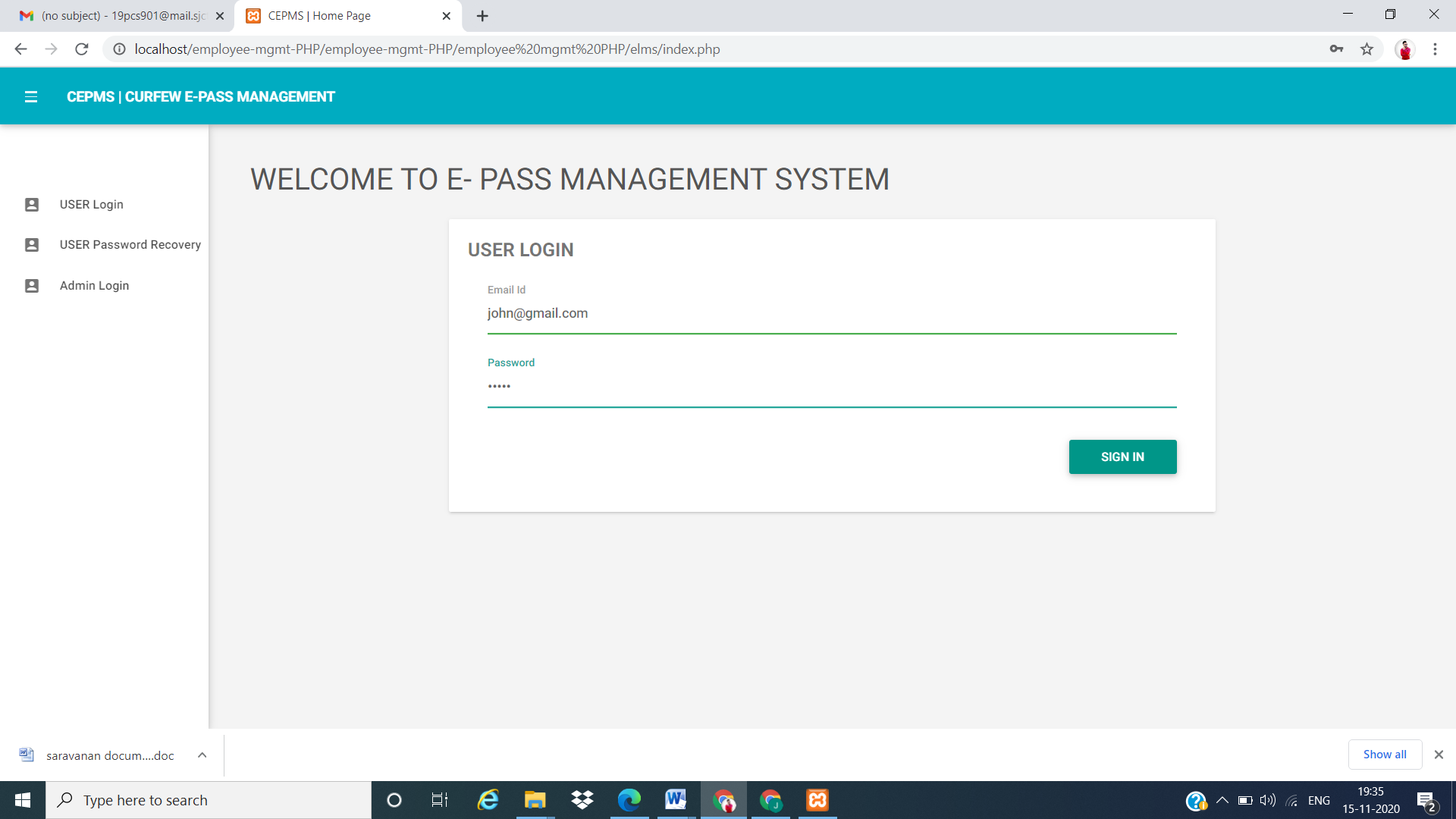
● Next you will see the Ready to install screen. You can review your setup choices, and change any of them by clicking back to the appropriate screen, if you choose to. Once you have reviewed your choices, click Install to continue.

● Wamp Server will begin extracting files to the location you selected.

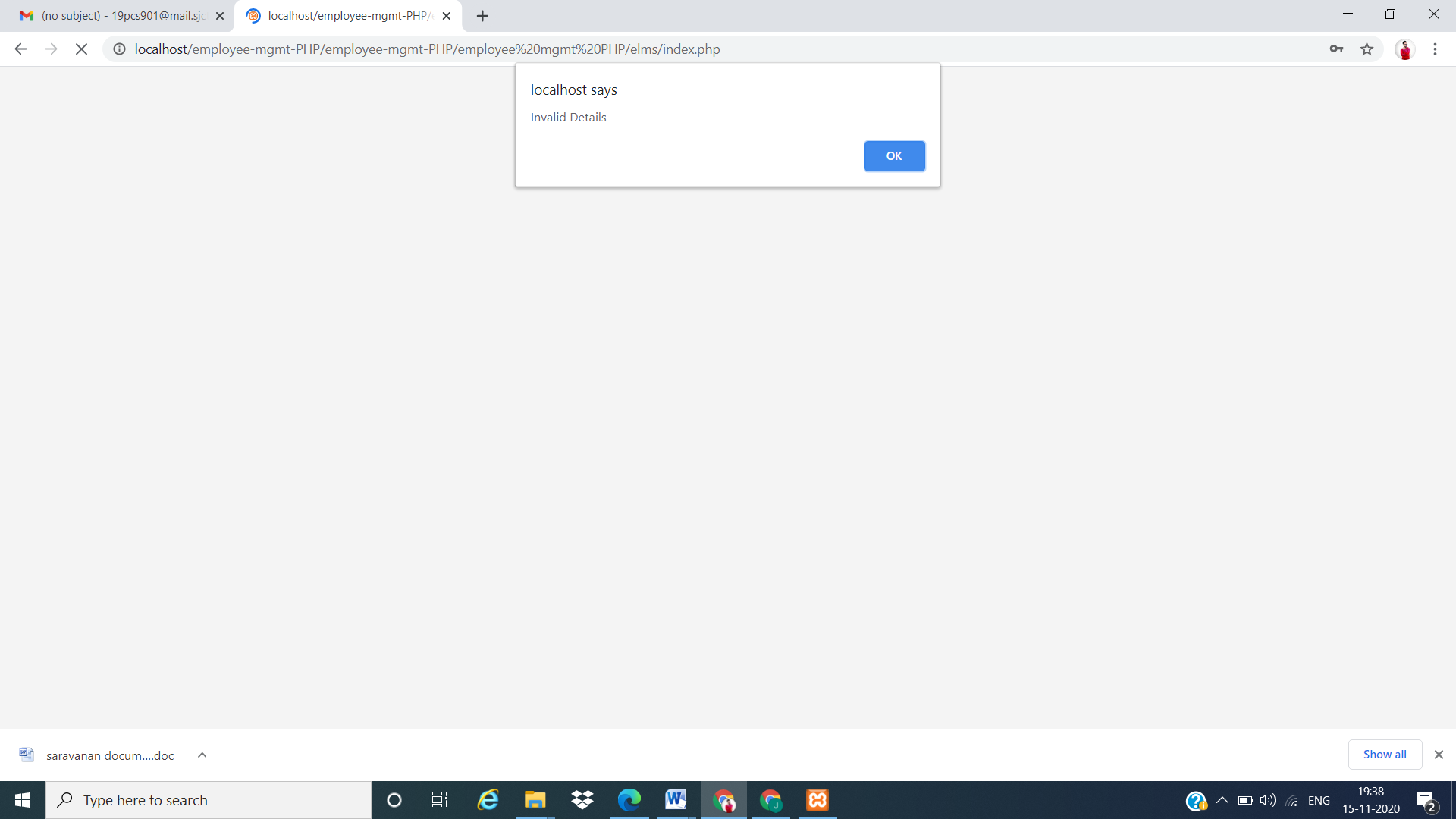
● Windows Security Alert window will open, saying that Windows Firewall has blocked some features of the program. Check whether you want to allow Apache HTTP Server to communicate on a private or public network, then click Allow Access.

● You should see the Wamp Server icon appear in the system on the right side of your taskbar. If the icon is green, then everything is working properly. If the icon is orange, then there are issues with one of the services. If the icon is red, then both Apache and MySQL services aren’t running. You will need to resolve those issues before continuing.

**7.4SAMPLE I/O:**



**7.5 Error Message:**



**8. CONCLUSION**

**8.1 Summary of the Project**

**A Curfew E – Pass management system** is the first initiative in to the web space. The website did not have an online presence before this. This website will provide a new pass system as well as the website can give pass to the users.

The main limitation of this system is that there is no immediate response of pass services and still this website. There are limitations on displaying the pass of the users because of many undisclosed reasons which can be further improved as the website is up and running in time.

**8.2 Future Enhancements**

* Interactive location systems compatibility
* Admin can view location of users
* Implementation of the website into an Android application
* Multiple portals to other users
* Project can be modified according to future criteria given by the users

**BIBLIOGRAPHY**

**Book References**

1. Roger S. Pressman, “**Software Engineering - A Practioner’s Approach**”, 6th Edition, Tata McGraw Hill, New Delhi, 2005.
2. Abraham Silberschatz, Hendry F.Korth, S. Sudharsan, **“Database Systems Concepts”**, 4th Edition, Tata McGraw Hill International, Singapore, 2002.

**Web References**

* http://www.w3schools.com
* http://www.tutorialspoint.com/php/index.htm
* www.colorhexa.com
* http://graphberry.com

APPENDIX

SOURCE CODE :

Index:

<?php

session\_start();

error\_reporting(0);

include('includes/config.php');

if(isset($\_POST['signin']))

{

$uname=$\_POST['username'];

$password=md5($\_POST['password']);

$sql ="SELECT EmailId,Password,Status,id FROM tblemployees WHERE EmailId=:uname and Password=:password";

$query= $dbh -> prepare($sql);

$query-> bindParam(':uname', $uname, PDO::PARAM\_STR);

$query-> bindParam(':password', $password, PDO::PARAM\_STR);

$query-> execute();

$results=$query->fetchAll(PDO::FETCH\_OBJ);

if($query->rowCount() > 0)

{

foreach ($results as $result) {

$status=$result->Status;

$\_SESSION['eid']=$result->id;

}

if($status==0)

{

$msg="Your account is Inactive. Please contact admin";

} else{

$\_SESSION['emplogin']=$\_POST['username'];

echo "<script type='text/javascript'> document.location = 'emp-changepassword.php'; </script>";

} }

else{

echo "<script>alert('Invalid Details');</script>";

}

}

?><!DOCTYPE html>

<html lang="en">

<head>

<!-- Title -->

<title>CEPMS | Home Page</title>

<meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0, user-scalable=no"/>

<meta charset="UTF-8">

<meta name="description" content="Responsive Admin Dashboard Template" />

<meta name="keywords" content="admin,dashboard" />

<meta name="author" content="Steelcoders" />

<!-- Styles -->

<link type="text/css" rel="stylesheet" href="assets/plugins/materialize/css/materialize.min.css"/>

<link href="http://fonts.googleapis.com/icon?family=Material+Icons" rel="stylesheet">

<link href="assets/plugins/material-preloader/css/materialPreloader.min.css" rel="stylesheet">

<!-- Theme Styles -->

<link href="assets/css/alpha.min.css" rel="stylesheet" type="text/css"/>

<link href="assets/css/custom.css" rel="stylesheet" type="text/css"/>

<!-- HTML5 shim and Respond.js for IE8 support of HTML5 elements and media queries -->

<!-- WARNING: Respond.js doesn't work if you view the page via file:// -->

<!--[if lt IE 9]>

<script src="http://oss.maxcdn.com/html5shiv/3.7.2/html5shiv.min.js"></script>

<script src="http://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>

<![endif]-->

</head>

<body>

<div class="loader-bg"></div>

<div class="loader">

<div class="preloader-wrapper big active">

<div class="spinner-layer spinner-blue">

<div class="circle-clipper left">

<div class="circle"></div>

</div><div class="gap-patch">

<div class="circle"></div>

</div><div class="circle-clipper right">

<div class="circle"></div>

</div>

</div>

<div class="spinner-layer spinner-spinner-teal lighten-1">

<div class="circle-clipper left">

<div class="circle"></div>

</div><div class="gap-patch">

<div class="circle"></div>

</div><div class="circle-clipper right">

<div class="circle"></div>

</div>

</div>

<div class="spinner-layer spinner-yellow">

<div class="circle-clipper left">

<div class="circle"></div>

</div><div class="gap-patch">

<div class="circle"></div>

</div><div class="circle-clipper right">

<div class="circle"></div>

</div>

</div>

<div class="spinner-layer spinner-green">

<div class="circle-clipper left">

<div class="circle"></div>

</div><div class="gap-patch">

<div class="circle"></div>

</div><div class="circle-clipper right">

<div class="circle"></div>

</div>

</div>

</div>

</div>

<div class="mn-content fixed-sidebar">

<header class="mn-header navbar-fixed">

<nav class="cyan darken-1">

<div class="nav-wrapper row">

<section class="material-design-hamburger navigation-toggle">

<a href="#" data-activates="slide-out" class="button-collapse show-on-large material-design-hamburger\_\_icon">

<span class="material-design-hamburger\_\_layer"></span>

</a>

</section>

<div class="header-title col s3">

<span class="chapter-title">CEPMS | CURFEW E-PASS MANAGEMENT SYSTEM</span>

</div>

</form>

</div>

</nav>

</header>

<aside id="slide-out" class="side-nav white fixed">

<div class="side-nav-wrapper">

<ul class="sidebar-menu collapsible collapsible-accordion" data-collapsible="accordion" style="">

<li>&nbsp;</li>

<li class="no-padding"><a class="waves-effect waves-grey" href="index.php"><i class="material-icons">account\_box</i>USER Login</a></li>

<li class="no-padding"><a class="waves-effect waves-grey" href="forgot-password.php"><i class="material-icons">account\_box</i>USER Password Recovery</a></li>

<li class="no-padding"><a class="waves-effect waves-grey" href="admin/"><i class="material-icons">account\_box</i>Admin Login</a></li>

</ul>

</div>

</aside>

<main class="mn-inner">

<div class="row">

<div class="col s12">

<div class="page-title"><h4>Welcome to E- PASS Management System</h4></div>

<div class="col s12 m6 l8 offset-l2 offset-m3">

<div class="card white darken-1">

<div class="card-content ">

<span class="card-title" style="font-size:20px;">USER Login</span>

<?php if($msg){?><div class="errorWrap"><strong>Error</strong> : <?php echo htmlentities($msg); ?> </div><?php }?>

<div class="row">

<form class="col s12" name="signin" method="post">

<div class="input-field col s12">

<input id="username" type="text" name="username" class="validate" autocomplete="off" required >

<label for="email">Email Id</label>

</div>

<div class="input-field col s12">

<input id="password" type="password" class="validate" name="password" autocomplete="off" required>

<label for="password">Password</label>

</div>

<div class="col s12 right-align m-t-sm">

<input type="submit" name="signin" value="Sign in" class="waves-effect waves-light btn teal">

</div>

</form>

</div>

</div>

</div>

</div>

</div>

</div>

</main>

</div>

<div class="left-sidebar-hover"></div>

<!-- Javascripts -->

<script src="assets/plugins/jquery/jquery-2.2.0.min.js"></script>

<script src="assets/plugins/materialize/js/materialize.min.js"></script>

<script src="assets/plugins/material-preloader/js/materialPreloader.min.js"></script>

<script src="assets/plugins/jquery-blockui/jquery.blockui.js"></script>

<script src="assets/js/alpha.min.js"></script>

</body>

</html>

Apply pass:

<?php

session\_start();

error\_reporting(0);

include('includes/config.php');

if(strlen($\_SESSION['emplogin'])==0)

{

header('location:index.php');

}

else{

if(isset($\_POST['apply']))

{

$empid=$\_SESSION['eid'];

$leavetype=$\_POST['leavetype'];

$fromdate=$\_POST['fromdate'];

$todate=$\_POST['todate'];

$description=$\_POST['description'];

$status=0;

$isread=0;

if($fromdate > $todate){

$error=" ToDate should be greater than FromDate ";

}

$sql="INSERT INTO tblleaves(LeaveType,ToDate,FromDate,Description,Status,IsRead,empid) VALUES(:leavetype,:fromdate,:todate,:description,:status,:isread,:empid)";

$query = $dbh->prepare($sql);

$query->bindParam(':leavetype',$leavetype,PDO::PARAM\_STR);

$query->bindParam(':fromdate',$fromdate,PDO::PARAM\_STR);

$query->bindParam(':todate',$todate,PDO::PARAM\_STR);

$query->bindParam(':description',$description,PDO::PARAM\_STR);

$query->bindParam(':status',$status,PDO::PARAM\_STR);

$query->bindParam(':isread',$isread,PDO::PARAM\_STR);

$query->bindParam(':empid',$empid,PDO::PARAM\_STR);

$query->execute();

$lastInsertId = $dbh->lastInsertId();

if($lastInsertId)

{

$msg="pass applied successfully";

}

else

{

$error="Something went wrong. Please try again";

}

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

<!-- Title -->

<title>USERS | APPLY PASS</title>

<meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0, user-scalable=no"/>

<meta charset="UTF-8">

<meta name="description" content="Responsive Admin Dashboard Template" />

<meta name="keywords" content="admin,dashboard" />

<meta name="author" content="Steelcoders" />

<!-- Styles -->

<link type="text/css" rel="stylesheet" href="assets/plugins/materialize/css/materialize.min.css"/>

<link href="http://fonts.googleapis.com/icon?family=Material+Icons" rel="stylesheet">

<link href="assets/plugins/material-preloader/css/materialPreloader.min.css" rel="stylesheet">

<link href="assets/css/alpha.min.css" rel="stylesheet" type="text/css"/>

<link href="assets/css/custom.css" rel="stylesheet" type="text/css"/>

<style>

.errorWrap {

padding: 10px;

margin: 0 0 20px 0;

background: #fff;

border-left: 4px solid #dd3d36;

-webkit-box-shadow: 0 1px 1px 0 rgba(0,0,0,.1);

box-shadow: 0 1px 1px 0 rgba(0,0,0,.1);

}

.succWrap{

padding: 10px;

margin: 0 0 20px 0;

background: #fff;

border-left: 4px solid #5cb85c;

-webkit-box-shadow: 0 1px 1px 0 rgba(0,0,0,.1);

box-shadow: 0 1px 1px 0 rgba(0,0,0,.1);

}

</style>

</head>

<body>

<?php include('includes/header.php');?>

<?php include('includes/sidebar.php');?>

<main class="mn-inner">

<div class="row">

<div class="col s12">

<div class="page-title">APPLY FOR PASS</div>

</div>

<div class="col s12 m12 l8">

<div class="card">

<div class="card-content">

<form id="example-form" method="post" name="addemp">

<div>

<h3>APPLY FOR PASS</h3>

<section>

<div class="wizard-content">

<div class="row">

<div class="col m12">

<div class="row">

<?php if($error){?><div class="errorWrap"><strong>ERROR </strong>:<?php echo htmlentities($error); ?> </div><?php }

else if($msg){?><div class="succWrap"><strong>SUCCESS</strong>:<?php echo htmlentities($msg); ?> </div><?php }?>

<div class="input-field col s12">

<select name="leavetype" autocomplete="off">

<option value="">Select pass type...</option>

<?php $sql = "SELECT LeaveType from tblleavetype";

$query = $dbh -> prepare($sql);

$query->execute();

$results=$query->fetchAll(PDO::FETCH\_OBJ);

$cnt=1;

if($query->rowCount() > 0)

{

foreach($results as $result)

{ ?>

<option value="<?php echo htmlentities($result->LeaveType);?>"><?php echo htmlentities($result->LeaveType);?></option>

<?php }} ?>

</select>

</div>

<div class="input-field col m6 s12">

<label for="fromdate">FROM DATE</label>

<input placeholder="" id="mask1" name="fromdate" class="masked" type="text" data-inputmask="'alias': 'date'" required>

</div>

<div class="input-field col m6 s12">

<label for="todate">TO DATE</label>

<input placeholder="" id="mask1" name="todate" class="masked" type="text" data-inputmask="'alias': 'date'" required>

</div>

<div class="input-field col m12 s12">

<label for="birthdate">DESCRIPTION</label>

<textarea id="textarea1" name="description" class="materialize-textarea" length="500" required></textarea>

</div>

</div>

<button type="submit" name="apply" id="apply" class="waves-effect waves-light btn indigo m-b-xs">APPLY</button>

</div>

</div>

</section>

</section>

</div>

</form>

</div>

</div>

</div>

</div>

</main>

</div>

<div class="left-sidebar-hover"></div>

<!-- Javascripts -->

<script src="assets/plugins/jquery/jquery-2.2.0.min.js"></script>

<script src="assets/plugins/materialize/js/materialize.min.js"></script>

<script src="assets/plugins/material-preloader/js/materialPreloader.min.js"></script>

<script src="assets/plugins/jquery-blockui/jquery.blockui.js"></script>

<script src="assets/js/alpha.min.js"></script>

<script src="assets/js/pages/form\_elements.js"></script>

<script src="assets/js/pages/form-input-mask.js"></script>

<script src="assets/plugins/jquery-inputmask/jquery.inputmask.bundle.js"></script>

</body>

</html>

<?php } ?>

Change password:

<?php

session\_start();

error\_reporting(0);

include('includes/config.php');

if(strlen($\_SESSION['emplogin'])==0)

{

header('location:index.php');

}

else{

// Code for change password

if(isset($\_POST['change']))

{

$password=md5($\_POST['password']);

$newpassword=md5($\_POST['newpassword']);

$username=$\_SESSION['emplogin'];

$sql ="SELECT Password FROM tblemployees WHERE EmailId=:username and Password=:password";

$query= $dbh -> prepare($sql);

$query-> bindParam(':username', $username, PDO::PARAM\_STR);

$query-> bindParam(':password', $password, PDO::PARAM\_STR);

$query-> execute();

$results = $query -> fetchAll(PDO::FETCH\_OBJ);

if($query -> rowCount() > 0)

{

$con="update tblemployees set Password=:newpassword where EmailId=:username";

$chngpwd1 = $dbh->prepare($con);

$chngpwd1-> bindParam(':username', $username, PDO::PARAM\_STR);

$chngpwd1-> bindParam(':newpassword', $newpassword, PDO::PARAM\_STR);

$chngpwd1->execute();

$msg="Your Password succesfully changed";

}

else {

$error="Your current password is wrong";

}

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

<!-- Title -->

<title>USERS | CHANGE PASSWORD</title>

<meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0, user-scalable=no"/>

<meta charset="UTF-8">

<meta name="description" content="Responsive Admin Dashboard Template" />

<meta name="keywords" content="admin,dashboard" />

<meta name="author" content="Steelcoders" />

<!-- Styles -->

<link type="text/css" rel="stylesheet" href="assets/plugins/materialize/css/materialize.min.css"/>

<link href="http://fonts.googleapis.com/icon?family=Material+Icons" rel="stylesheet">

<link href="assets/plugins/material-preloader/css/materialPreloader.min.css" rel="stylesheet">

<link href="assets/css/alpha.min.css" rel="stylesheet" type="text/css"/>

<link href="assets/css/custom.css" rel="stylesheet" type="text/css"/>

<style>

.errorWrap {

padding: 10px;

margin: 0 0 20px 0;

background: #fff;

border-left: 4px solid #dd3d36;

-webkit-box-shadow: 0 1px 1px 0 rgba(0,0,0,.1);

box-shadow: 0 1px 1px 0 rgba(0,0,0,.1);

}

.succWrap{

padding: 10px;

margin: 0 0 20px 0;

background: #fff;

border-left: 4px solid #5cb85c;

-webkit-box-shadow: 0 1px 1px 0 rgba(0,0,0,.1);

box-shadow: 0 1px 1px 0 rgba(0,0,0,.1);

}

</style>

</head>

<body>

<?php include('includes/header.php');?>

<?php include('includes/sidebar.php');?>

<main class="mn-inner">

<div class="row">

<div class="col s12">

<div class="page-title">CHANGE PASSWORD</div>

</div>

<div class="col s12 m12 l6">

<div class="card">

<div class="card-content">

<div class="row">

<form class="col s12" name="chngpwd" method="post">

<?php if($error){?><div class="errorWrap"><strong>ERROR</strong>:<?php echo htmlentities($error); ?> </div><?php }

else if($msg){?><div class="succWrap"><strong>SUCCESS</strong>:<?php echo htmlentities($msg); ?> </div><?php }?>

<div class="row">

<div class="input-field col s12">

<input id="password" type="password" class="validate" autocomplete="off" name="password" required>

<label for="password">CURRENT PASSWORD</label>

</div>

<div class="input-field col s12">

<input id="password" type="password" name="newpassword" class="validate" autocomplete="off" required>

<label for="password">NEW PASSWORD</label>

</div>

<div class="input-field col s12">

<input id="password" type="password" name="confirmpassword" class="validate" autocomplete="off" required>

<label for="password">CONFIRM PASSWORD</label>

</div>

<div class="input-field col s12">

<button type="submit" name="change" class="waves-effect waves-light btn indigo m-b-xs" onclick="return valid();">Change</button>

</div>

</div>

</form>

</div>

</div>

</div>

</div>

</div>

</main>

</div>

<div class="left-sidebar-hover"></div>

<!-- Javascripts -->

<script src="assets/plugins/jquery/jquery-2.2.0.min.js"></script>

<script src="assets/plugins/materialize/js/materialize.min.js"></script>

<script src="assets/plugins/material-preloader/js/materialPreloader.min.js"></script>

<script src="assets/plugins/jquery-blockui/jquery.blockui.js"></script>

<script src="assets/js/alpha.min.js"></script>

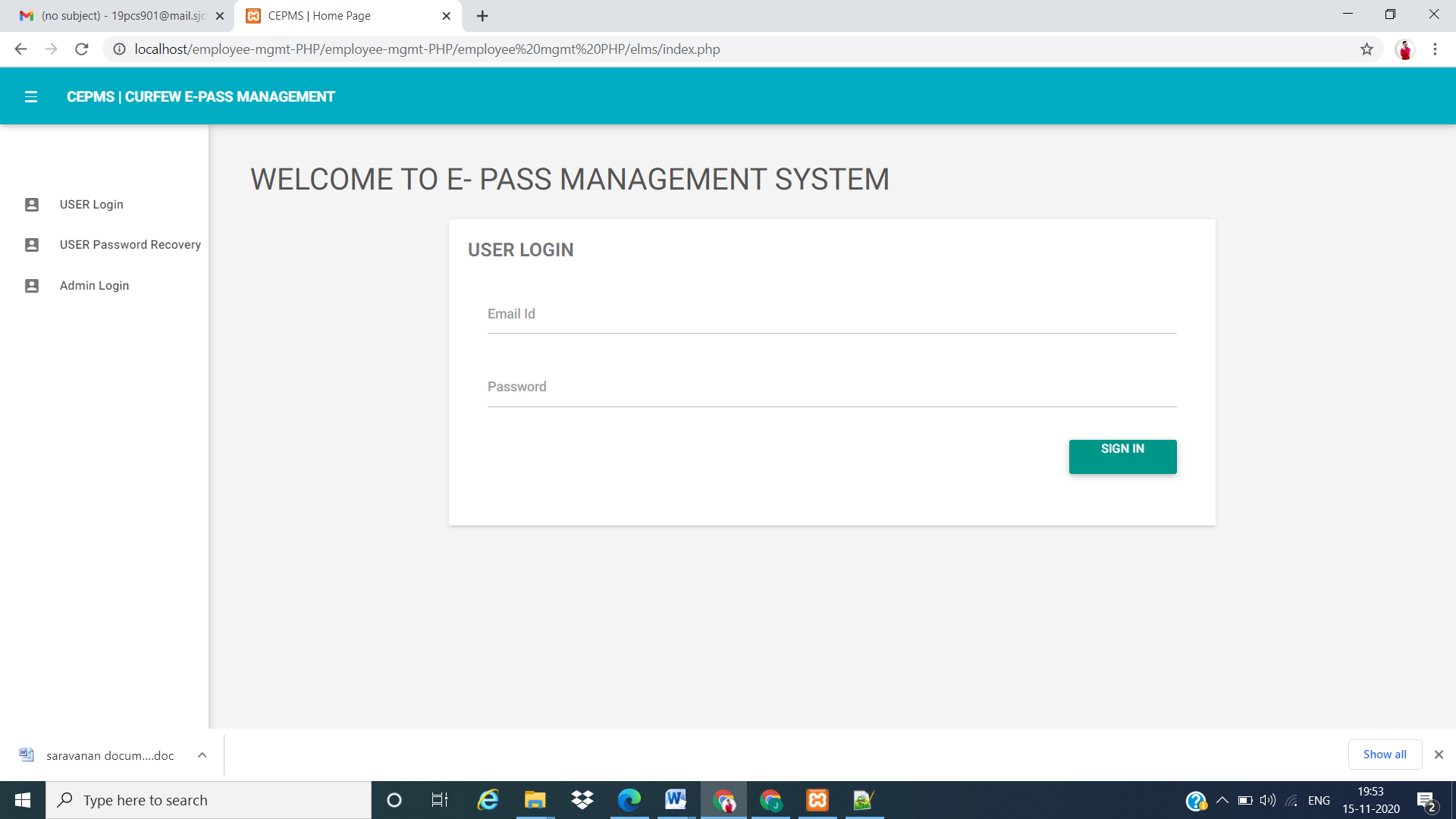
<script src="assets/js/pages/form\_elements.js"></script>

</body>

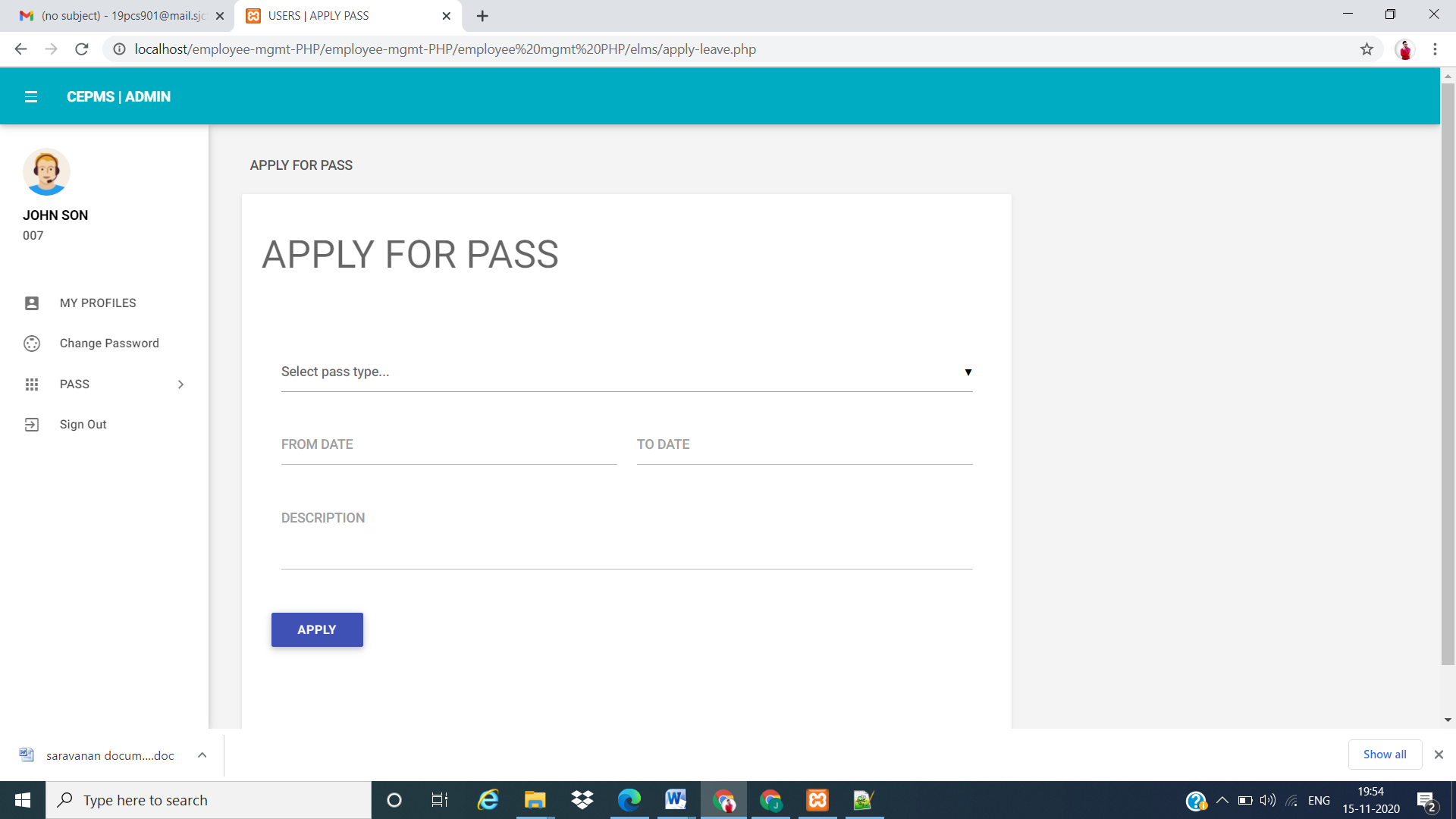
</html>

<?php } ?>

**Screenshot:**



**User side:**



**Admin side:**

