A PROJECT REPORT ON

Department Management System: Publication Module System

Submitted in partial fulfillment of the requirements for the award of the degree of

Bachelor of Technology

in

COMPUTER SCIENCE AND ENGINEERING

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MADAN MOHAN MALAVIYA UNIVERSITY OF TECHNOLOGY
GORAKHPUR – 273010 (INDIA)
MAY, 2017

CANDIDATE'S DECLARATION

We declare that this project report presents our work and ideas in our own words and where others ideas or words have been included, we adequately cited and referenced the original sources. We also declare that we have adhered to all principles of academic honesty and integrity and have not misprinted or fabricated or falsified any idea/data/fact/source in our submission. We understand that any violation of the above will be cause for disciplinary action by the University and can also evoke penal action from the sources which have thus not been properly cited or from whom paper permission has not been taken when needed.

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Date : _____

CERTIFICATE

Certified that *Aditi Kumari*, *Deepak* and *Vipin Kumar Maurya* have carried out the project work presented in this report entitled "*Department Management System: Publication Module System"* for the award of Bachelor of Technology from Madan Mohan Malaviya University of Technology, Gorakhpur under my supervision. The report embodies results of original work and studies carried out by students themselves to the best of my knowledge and the contents of this report do not form the basis for the award of any other degree to the candidates or to anybody else.

Dr. S.P. Singh
Associate Professor
Computer Science & Engineering
M.M.M.U.T. Gorakhpur

Date: _____

APPROVAL SHEET

This report entitled "***Department Management System: Publication Module System***" by **Aditi Kumari (130210002), Deepak (130210015) and Vipin Kumar Maurya (130210057)** is approved for the degree of Bachelor of Technology.

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Other Dean/Professor to be nominated

by the Vice Chancellor in his absence

_____

Date: _____

Place: Gorakhpur

ACKNOWLEDGEMENT

I take this opportunity to express my profound gratitude and deep regards to my guide Dr. S.P. Singh (Associate Professor, CSE dept., MMMUT) for his exemplary guidance, monitoring and constant encouragement throughout the course of this project. The blessing, help and guidance given by him time to time shall carry me a long way in the journey of life on which I am about to embark.

I also take this opportunity to express a deep sense of gratitude to Dr. Rakesh Kumar (Head of Dept., CSE, MMMUT) for his cordial support, valuable information and guidance which helped me in completing this task through various stages.

Lastly, I thank almighty, my parents and my classmates for their constant encouragement without which this assignment would not have been possible

Date: Aditi Kumari

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LIST OF FIGURES

LIST OF TABLES

LIST OF ABBREVIATIONS

Abbreviation	Description
DMS	Department Management System
OTP	One Time Password
GUI	Graphical User Interface
HTML	HyperText Markup Language
CSS	Cascading Style Sheets
HTTP	HyperText Transfer Protocol
RDBMS	Relational Database Management System
SQL	Structured Query Language
GPL	General Public License
CDN	Content Delivery Network
DFD	Data Flow Diagram
OS	Operating System

ABSTRACT

Department Management System: Publication Module System web application shall provide the facility to user to add, view, and update their Publications, Patents, Books and Projects. Publications include information about International Journals, National Journals, Proceedings of International and National Conferences. After successfully submitting the information, it should provide the provision to user to download the PDF report as well as generate the excel sheet. Provision of excel sheet is provided in case user wants to change the order of field display and edit any further information.

The main purpose of this website is to serve as a web presence for the teachers and professors. This software provides online platform to collect and manage this information efficiently. It provides GUI to its users so that they can easily manage their data and also retrieve it efficiently as per the requirements.

TABLE OF CONTENTS

CHAPTER 1: HARDWARE AND SOFTWARE REQUIREMENTS

1.1 Hardware Requirements:

- Processor – i5
- Hard Disk – 500 GB
- Memory – 4 GB RAM

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1.2 Software Requirements:

1.2.1 NetBeans

NetBeans is a software development platform written in Java. The NetBeans Platform allows applications to be developed from set of modular software components called modules. Applications based on the NetBeans Platform, including the NetBeans Integrated Development Environment (IDE), can be extended by third party developers. The NetBeans IDE is primarily intended for development in Java, but also supports other languages, in particular PHP, C/C++ and HTML5.

NetBeans is cross-platform and runs on Microsoft Windows, Mac OS X, Linux, Solaris and other platforms supporting a compatible JVM.The NetBeans Team actively supports the product and seeks feature suggestions from the wider community. Every release is preceded by a time for Community testing and feedback.

1.2.2 Apache Tomcat Webserver

The Apache Tomcat software is an open source implementation of the Java Servlet, JavaServer Pages, Java Expression Language and Java WebSocket technologies. The

Java Servlet, JavaServer Pages, Java Expression Language and Java WebSocket specifications are developed under the Java Community Process.The Apache Tomcat software is developed in an open and participatory environment and released under the Apache License version 2. The Apache Tomcat project is intended to be a collaboration of the best-of-breed developers from around the world. Apache Tomcat software powers numerous large-scale, mission-critical web applications across a diverse range of industries and organizations. Apache Tomcat, Tomcat, Apache, the Apache feather, and the Apache Tomcat project logo are trademarks of the Apache Software Foundation.

In short it can describe as a "pure Java" HTTP web server environment in which Java code can run.

1.2.3 MySQL

MySQL is an open source Relational Database Management System (RDBMS) based on Structured Query Language (SQL). MySQL runs on virtually all platforms, including Linux, UNIX, and Windows. Although it can be used in a wide range of applications, MySQL is most often associated with web-based applications and online publishing.

MySQL is a fast, easy-to-use RDBMS being used for many small and big businesses.

MySQL is developed, marketed, and supported by MySQL AB, which is a Swedish company. MySQL is becoming so popular because of many good reasons:

- MySQL is released under an open-source license. So you have nothing to pay to use it.
- MySQL is a very powerful program in its own right. It handles a large subset of the functionality of the most expensive and powerful database packages.
- MySQL uses a standard form of the well-known SQL data language.
- MySQL works on many operating systems and with many languages including PHP, PERL, C, C++, JAVA, etc.
- MySQL works very quickly and works well even with large data sets.

- MySQL is very friendly to PHP, the most appreciated language for web development.
- MySQL is customizable. The open-source GPL license allows programmers to modify the MySQL software to fit their own specific environments.

1.2.4. Notepad++

Notepad++ is a text editor and source code editor for use with Microsoft Windows. It supports tabbed editing, which allows working with multiple open files in a single window. The project's name comes from the C increment operator.

Notepad++ is distributed as free software. At first the project was hosted on SourceForge.net, from where it has been downloaded over 28 million times, and twice won the SourceForge Community Choice Award for Best Developer Tool. The project was hosted on TuxFamily from 2010 to 2015; since 2015 Notepad++ has been hosted on GitHub. Notepad++ uses the Scintilla editor component.

CHAPTER 2: PROBLEM STATEMENT

We have developed intranet information management system named as Department Management System: Publication Module System to manage the publication related information of the teachers. Often it is required to collect data regarding Publications, Journals, Conferences, Patents, Books, and Projects of teachers for various institution related work. Collecting this information manually is a very tedious task. So there has been a dire need of such software in our college.

The aim of this software is to provide online platform to collect and manage this information efficiently. Here, user i.e. teachers can add, view, and update their Publications, Patents, Books and Projects. Publications include information about International Journals, National Journals, Proceedings of International and National Conferences. After successfully submitting the information, user can download the PDF report and also generate Excel sheet. In nut shell, this software provides GUI to its users so that they can easily manage their data and also retrieve it efficiently as per the requirements.

Since in manual management of database there are several disadvantages such as unavailability of data in case teacher is on leave during duration of information collection and more probability of errors so it is desired to have software like this for our college. The resources which are required for implementation of this software are high speed intranet, huge storage space at servers and should be readily available in college premises. So, it is quite simple and easy to implement this software at college servers.

CHAPTER 3: SYSTEM REQUIREMENT SPECIFACTIONS

2.1. Introduction

2.1.1. Purpose

The purpose of this Software Requirement Documentation is to provide high-level and detailed descriptions of the Publication Module System web application. This Software Requirement Documentation will provide quantifiable requirements of the web application for use by the designer and the users of Department Management System: Publication Module System web application.

2.1.2. Scope

Department Management System: Publication Module System web application shall provide the facility to user to add, view, and update their Publications, Patents, Books and Projects. Publications include information about International Journals, National Journals, Proceedings of International and National Conferences. After successfully submitting the information, it should provide the provision to user to download the PDF report as well as generate the excel sheet. Provision of excel sheet is provided in case user wants to change the order of field display and edit any further information.

2.1.3. Technology Used

HTML:

HyperText Markup Language (HTML) is the standard markup language for creating web pages and web applications. With Cascading Style Sheets (CSS) and JavaScript it forms a triad of cornerstone technologies for the Web. Web receive

HTML documents from a web server or from local storage and render them into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

CSS:

Cascading Style Sheets (CSS) is a style sheet language used for describing the look and formatting of a document written in a markup language. CSS is designed primarily to enable the separation of document content from document presentation, including elements such as the layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple pages to share formatting, and reduce complexity and repetition in the structural content.

Bootstrap:

Bootstrap is a free front-end framework for faster and easier web development. Bootstrap includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many others, as well as optional JavaScript Plugins. It also gives us the ability to create responsive designs. Responsive web design is about creating web sites which automatically adjust themselves to look good on all devices, from small phones to large desktopsThere are two ways to start using Bootstrap on your own Web site.

- Include Bootstrap from a CDN.
- Download Bootstrap from getbootstrap.com

Javascript:

Javascript is a dynamic computer programming language. It is lightweight and most

commonly used as a part of web pages, whose implementations allow client-side script to interact with the user and make dynamic pages. It is an interpreted programming language with object-oriented capabilities.

Java:

Java is a general-purpose computer programming language that is concurrent, class-based, object-oriented, and specifically designed to have as few implementation dependencies as possible. It is intended to let application developers "write once, run anywhere" (WORA), meaning that compiled Java code can run on all platforms that support Java without the need for recompilation. Java applications are typically compiled to bytecode that can run on any Java virtual machine (JVM) regardless of computer architecture.

Servlet:

A Java servlet is a Java program that extends the capabilities of a server. Although servlets can respond to any types of requests, they most commonly implement applications hosted on Web servers. Such Web servlets are the Java counterpart to other dynamic Web content technologies such as PHP and ASP.NET. Servlets could in principle communicate over any client–server protocol, but they are most often used with the HTTP protocol. Thus "servlet" is often used as shorthand for "HTTP servlet".

MySQL – My Structured Query Language:

MySQL is the most popular Open Source Relational SQL database management system. MySQL is one of the best RDBMS being used for developing web-based software applications. A Relational Database Management System (RDBMS) that runs as a server providing multi-user access to number of databases.

2.1.4. References:

1 - HTML:

https://en.wikipedia.org/wiki/HTML

2 – CSS:

http://en.wikipedia.org/wiki/css

3 – Javascript:

https://www.w3schools.com/js/

4 - Bootstrap:

http://www.w3schools.com/bootstrap

http://getbootstrap.com/

5 – Java:

https://en.wikipedia.org/wiki/Java_(programming_language)

6 – Servlet:

http://www.w3schools.com/servlet

http://www.javatpoint.com/servlet-tutorial

2.1.5. Overview:

The main purpose of this website is to serve as a web presence for the teachers and professors. The user will have the ability to enter, view, modify the data related to their publications, patents, books and projects and finally download the PDF document of the same. Also provision of generation of excel sheet is present in case user wants to modify the display of fields order and edit any further information.

2.2. Overall description:

2.2.1 Product Prospective:

- **User's interface:** User is a person who will enter, view, and updates his or her information. For that person has to give the user name and password to enter the

dashboard. Also the user has to confirm a mail sent to the specified email address during registration process in order to become a verified user and use features of application further.

2.2.2 Product Functions:

- Our system must save time.
- Simple to use.
- Improve requirement accuracy.

2.2.3 Assumptions and Dependencies:

Assumptions:

- The code should be free with compilation errors/syntax errors.
- The application must have an interface which is simple enough to understand.

Dependencies:

- All necessary hardware and software are available for implementing and use of the tool.
- The proposed system would be designed, developed and implemented based on the software requirements specifications document.
- The user should have internet connection and internet server capabilities.
- End users should know English language as the interface is provided in English.

2.3. Specific Requirements

2.3.1. Functional Requirements

- User Control Panel:

Information provided by the user while login is verified by the information in the database and the determination made if the user has the appropriate credentials to login to the website. If so, the web site will direct the user to their control page.

- Register:
  Information provided by the user in the registration process is inserted into the database.
- E-mail verification:
  A link regarding activation of e-mail will be received by user if email id provided by user is authentic.
- Password Reset:
  In case the user forgets his/her password reset of password will be done by OTP (One Time Password) received on registered mobile number during registration process.
- Enter Details:
  User will enter the information related to all his or her publications, patents, books and projects.
- View Details:
  User can view the entered information related to all his or her publications, patents, books and projects.
- Edit Details:
  User can edit the entered information related to all his or her publications, patents, books and projects in case any mistake has occurred previously.
- Report Generation:
  Generate of excel sheet as well as PDF report for users.
- Download:
  User can download the PDF document containing entered information related to all his or her publications, patents, books and projects.

2.3.2. Quality Requirements

- Reliability:

  The database should maintain data normalization by implementing a primary and foreign key system so that discrepancies do not occur within the data.

- Efficiency:

  System will be efficient.

- Security:
  - Administrator's passwords will be encrypted within the database.
  - Pages of the web site must be access in the way they were intended to be accessed.
- Maintainability:

  Administrators will have the ability to edit the aspects of the web site.

2.3.3. User Interface Requirements

- Home:

  User should be able to access information as well as logout with ease.
- Register:

  New user must have easy access to registration links.
- Login:

  The users should be able to login to their account once verified the verification mail received. User should be able to login within minutes of registering and upon initial login should be able to access the features of web application.
- Enter Personal Details:

  User should be able to easily enter the personal information, upload his/her photo and fill necessary information.

- Enter Details:

  User should easily enter the information related to all his or her publications, patents, books and projects.
- View Details:

  The user should have easy access to the information entered and could easily view.
- Edit Details:

  The user should be able to easily edit the entered information related to all his or her publications, patents, books and projects in case any mistake has occurred previously.
- Download:

  The user should be easily able to download the PDF document as well as excel sheet containing entered information related to all his or her publications, patents, books and projects.

2.3.4. Logical Database Requirements

- userdetails:

  This table will store the accounts of registered users. The Register table will be created based on information such as first name, last name, email, password and phone number. Once an agent provides a username the web site will ensure that they are registered before the user is allowed to login. The user will also be required to enter a valid email address.
- ijournel: This table will store all the information related to the International Journal published.
- iconference: This table will store all the information related to the papers published in International Conference.
- njournel: This table will store all the information related to the National Journal published.
- nconference: This table will store all the information related to the papers published in National Conference.

- book: This table will store all the information related to the Books published by the users.
- bookchapter: This table will store all the information related to all the book chapters published by the user
- patent: This table will store all the information related to the patent acquired by the users.
- project: This table will store all the information related to the project work completed by the user.

CHAPTER 3: SYSTEM DESIGN

3.1 Entity Relationship Diagram (ERD):

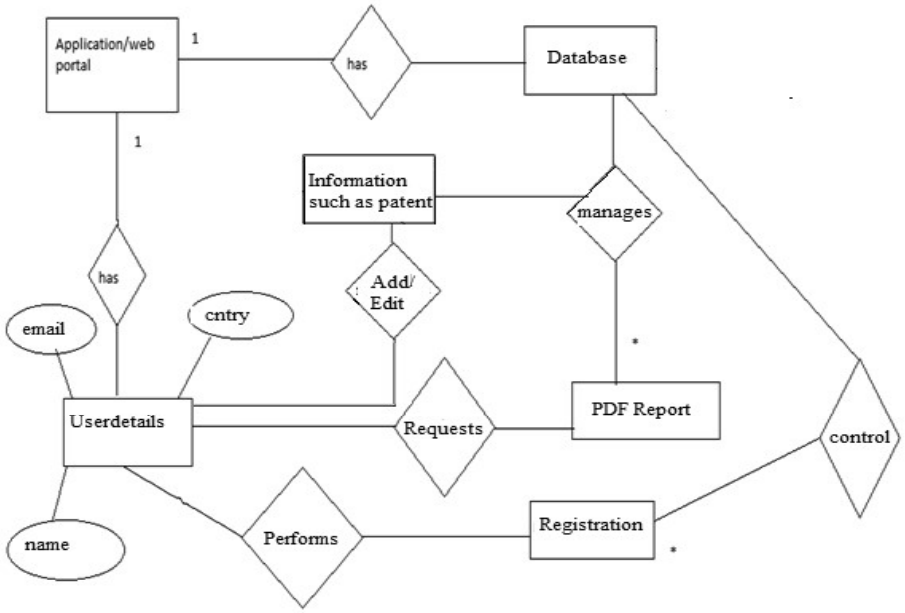

Fig 3.1: ER Diagram

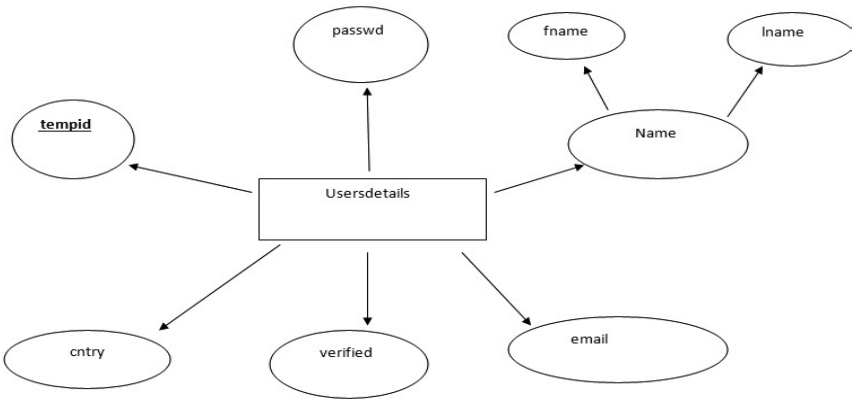

Fig 3.2: Entity set Userdetails

3.2 Dataflow Diagram (DFD)

A **data flow diagram** (**DFD**) is a graphical representation of the "flow" of data through an information system, modelling its process aspects. A **DFD** is often used as a preliminary step to create an overview of the system, which can later be elaborated.

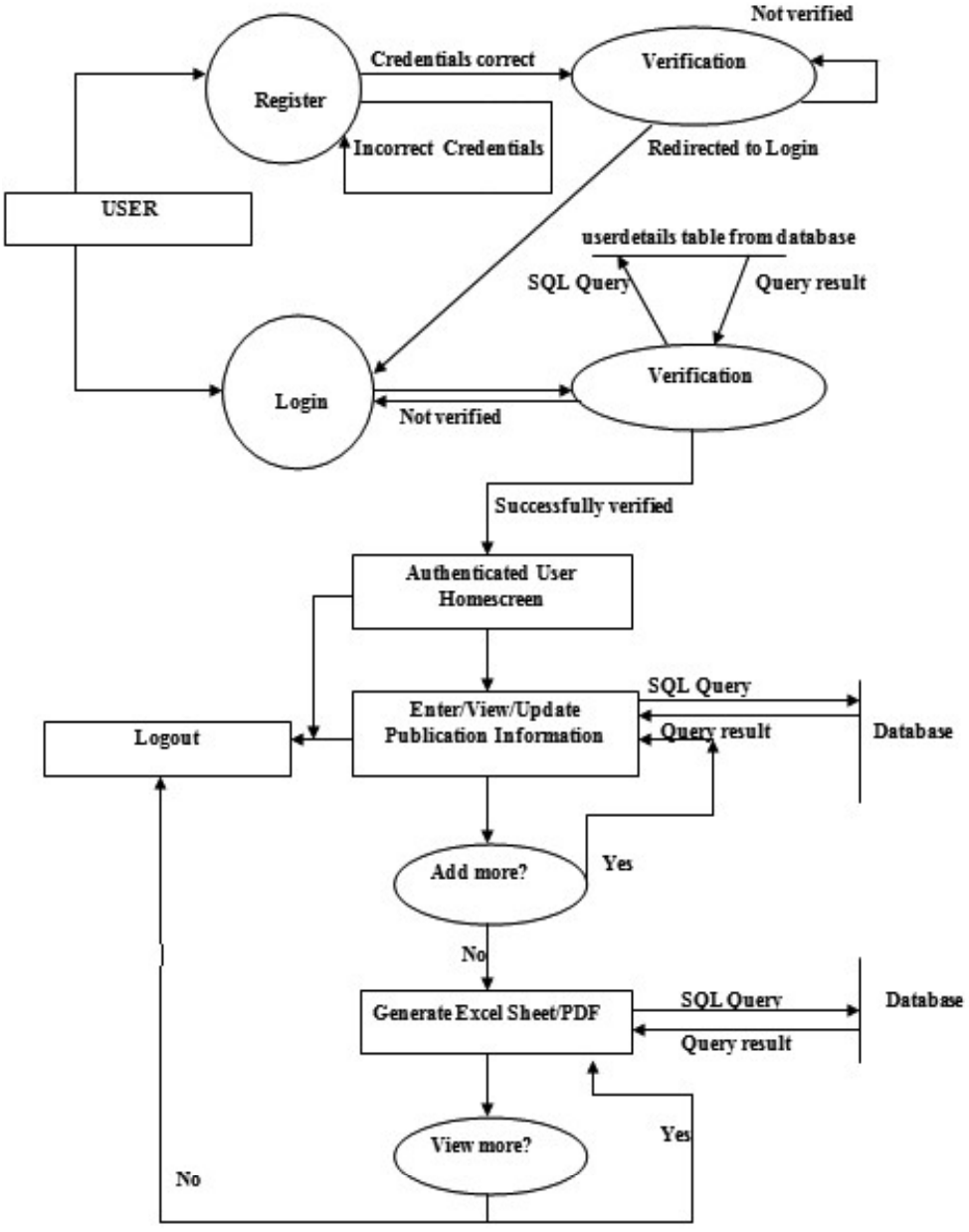

Fig 3.3: DFD

3.3 Data Modeling

3.3.1 Data Dictionary

Data Dictionaries are an integral component of analysis. A data dictionary is a catalog of the element in as system. This element centers on data and the way are structured to meet user‘s requirements and needs. The major elements are dataflow, data stores and processes. Data dictionary stores details and description of these elements. It is developed during data analysis and assists analysis involved in determining the system. The data dictionary contains two types of descriptions as following:

1. **Data Elements:** The most fundamental data level is the data element. Data element is the building block for all others in the system.

2. **Data Structure:** A data structure is a set of items that are related to one another that describes the data.

Primary Key: tempid

Description: To store the details of user.

Sr_No	Fields	Datatype	Description
1	Fname	varchar(100)	First Name of user
2	Lname	varchar(100)	Last Name of user
3	Gender	varchar(10)	Gender of user
4	Contact	varchar(10)	Post applied for
5	Email	varchar(100)	Where applicant lives
6	Passwd	varchar(100)	Email id of applicant
7	Verified	varchar(1)	To check email verification status
8	Tempid	varchar(30)	Random no generated

Table 4.1: userdetails

Primary Key: prissn

Description: To store the details of International Journal published.

Sr_No	Fields	Datatype	Description
1	author	varchar(100)	Name of authors
2	Article	varchar(100)	Title of journal
3	publisher	varchar(10)	Publisher name
4	Prissn	varchar(10)	Print ISSN number
5	Name	varchar(10)	Online ISSN number
6	volume	varchar(10)	Volume of Journal
7	Issue	varchar(5)	Issue of Journal
8	issueno	varchar(5)	Number of Journal
9	pp	varchar(15)	pp of Journal
10	weburl	varchar(100)	URL where Journal published
11	additional info	varchar(100)	Any additional information

Table 4.2: ijournal

Primary Key: prissn

Description: To store the details of National Journal published.

Sr_No	Fields	Datatype	Description
1	Author	varchar(100)	Name of authors
2	Article	varchar(100)	Title of journal
3	Publisher	varchar(10)	Publisher name
4	Prissn	varchar(10)	Print ISSN number
5	Name	varchar(10)	Online ISSN number

6	Volume	varchar(10)	Volume of Journal
7	Issue	varchar(5)	Issue of Journal
8	Issueno	varchar(30)	Number of Journal
9	Pp	varchar(15)	pp of Journal
10	Pdate	varchar(15)	Date when published
11	Weburl	varchar(100)	URL where Journal published
12	additional info	varchar(100)	Any additional information

Table 4.3: njournal

Primary Key: pp

Description: To store the details of International Conference.

Sr_No	**Fields**	**Datatype**	**Description**
1	Author	varchar(100)	Name of authors
2	Title	varchar(100)	Title of conference
3	conference_topic	varchar(100)	Conference topic
4	Cplace	varchar(15)	Conference place
5	Country	varchar(100)	Country where conference occurred
6	Volume	varchar(10)	Volume of conference
7	Name	varchar(50)	Conference organiser
8	pp	varchar(10)	pp of Conference
9	from_date	varchar(10)	Conference start date
10	to_date	varchar(10)	Conference end date
11	Weburl	varchar(100)	URL where published
12	additional info	varchar(100)	Additional information

Table 4.4: iconference

Primary Key: pp

Description: To store the details of National Conference.

Sr_No	Fields	Datatype	Description
1	Author	varchar(100)	Name of authors
2	Title	varchar(100)	Title of conference
3	conference_topic	varchar(10)	Conference topic
4	conference_place	varchar(10)	Conference place
5	Organiser	varchar(100)	Conference organiser
6	Country	varchar(100)	Country where conference occurred
7	Volume	varchar(1)	Volume of conference
8	Part_issue_no	varchar(30)	Issue or Part no of Conference
9	Pp	varchar(10)	pp of Conference
10	from_date	varchar(10)	Conference start date
11	to_date	varchar(10)	Conference end date
12	Weburl	varchar(100)	URL where published
13	additional info	varchar(100)	Additional information

Table 4.5: nconference

Primary Key: application_no

Description: To store the details of Patents.

Sr_No	Fields	Datatype	Description
1	Author	varchar(100)	Authors name

2	publication_no	varchar(20)	Publication number of Patent
3	publication_type	varchar(15)	Publication type
4	application_number	varchar(10)	Application number
5	publication_date	varchar(10)	Date of publication
6	filing_data	varchar(10)	Date of filing Patent
7	priority_date	varchar(10)	Priority date of Patent
8	Weburl	varchar(100)	URL where published
9	additional info	varchar(100)	Additional ionformation

Table 4.6: patent

Primary Key: hisbn

Description: To store the details of Book published.

Sr_No	**Fields**	**Datatype**	**Description**
1	Author	varchar(100)	Authors of book
2	Title	varchar(100)	Title of book
3	Editor	varchar(50)	Editor of book
4	Publisher	varchar(50)	Publisher name
5	publisher_location	varchar(50)	Publisher location
6	Year	integer(4)	Year of publication
7	Doi	varchar(20)	DOI
8	Hisbn	varchar(20)	Hardcover ISBN
9	Eisbn	varchar(20)	e-book ISBN
10	Weburl	varchar(100)	URL where published
11	additional info	varchar(100)	Additional ionformation

Table 4.7: books

Primary Key: hisbn

Description: To store the details of Book Chapters published.

Sr_No	Fields	Datatype	Description
1	Author	varchar(100)	Authors of book
2	chapter_title	varchar(100)	Title of chapter
3	Title	varchar(100)	Title of book
4	Editor	varchar(50)	Editor of book
5	Publisher	varchar(50)	Publisher name
6	publisher_location	varchar(50)	Publisher location
7	Year	integer(4)	Year of publication
8	Pno	varchar(30)	Page no of chapter
9	Hisbn	varchar(20)	Hardcover ISBN
10	Eisbn	varchar(20)	e-book ISBN
11	Weburl	varchar(100)	URL where published
12	additional info	varchar(100)	Additional ionformation

Table 4.8: bookchapter

Primary Key:

Description: To store the details of project.

Sr_No	Fields	Datatype	Description
1	Developer	varchar(100)	Developers of project

2	project_name	varchar(100)	Project name
3	completion_date	varchar(10)	Project completion date
4	reference_no	varchar(15)	Reference number
5	submitted_to	varchar(50)	Name of mentor
6	Weburl	varchar(100)	URL where project hosted
7	additional info	varchar(100)	Additional information

Table 4.9: project

CHAPTER 5: SNAPSHOTS

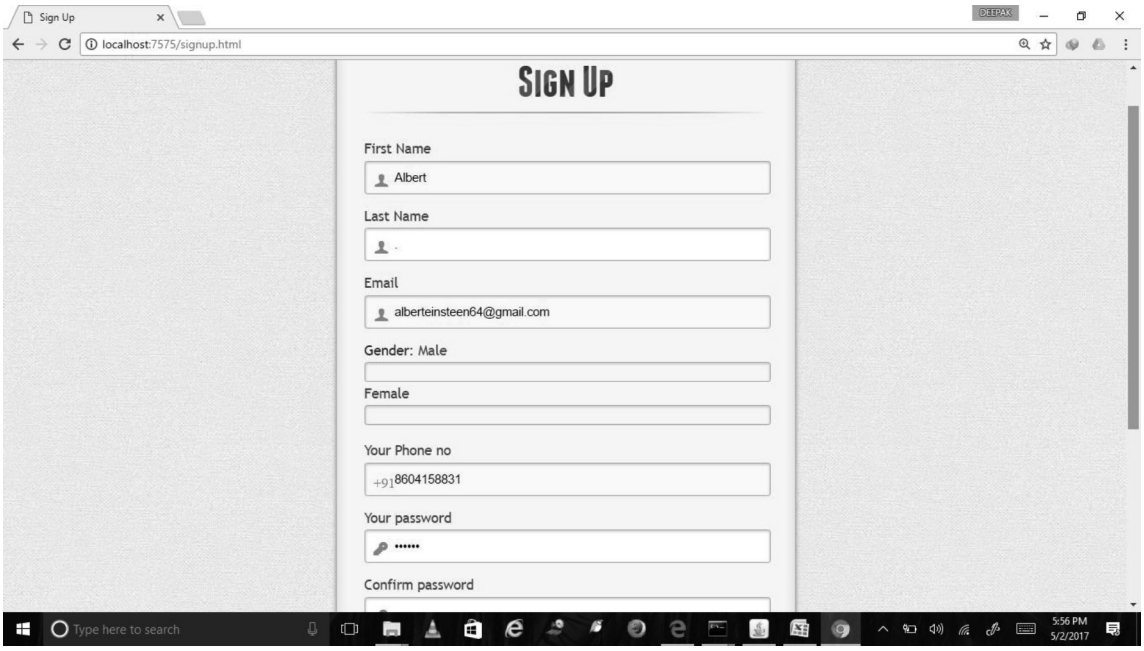

Fig 5.1: Sign Up Page

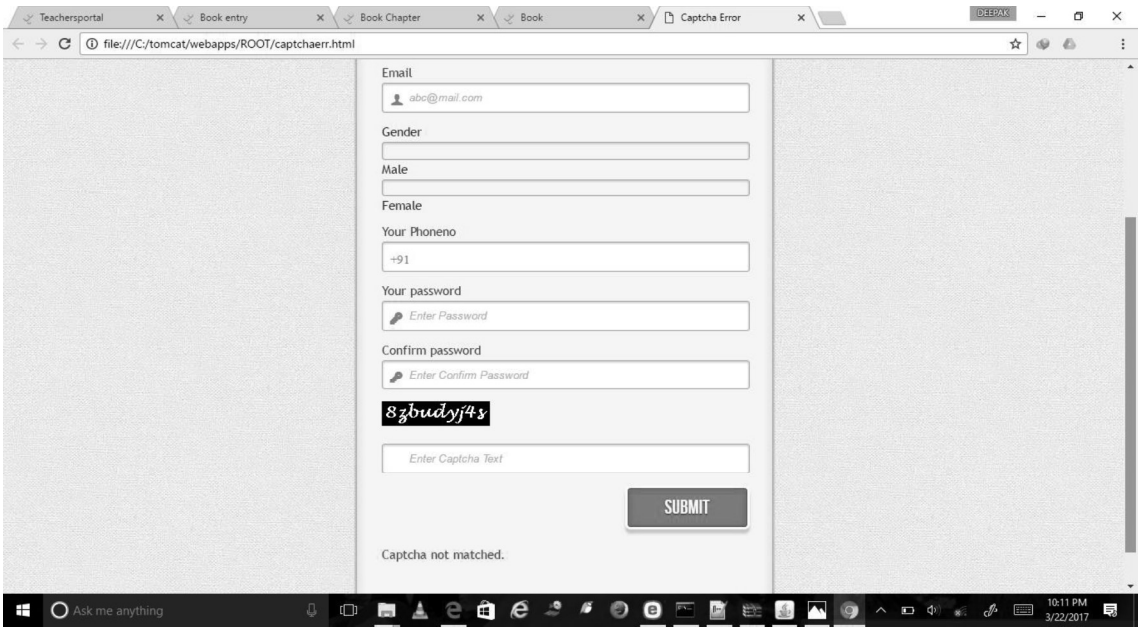

Fig 5.2: Signup Page in case of wrong entry

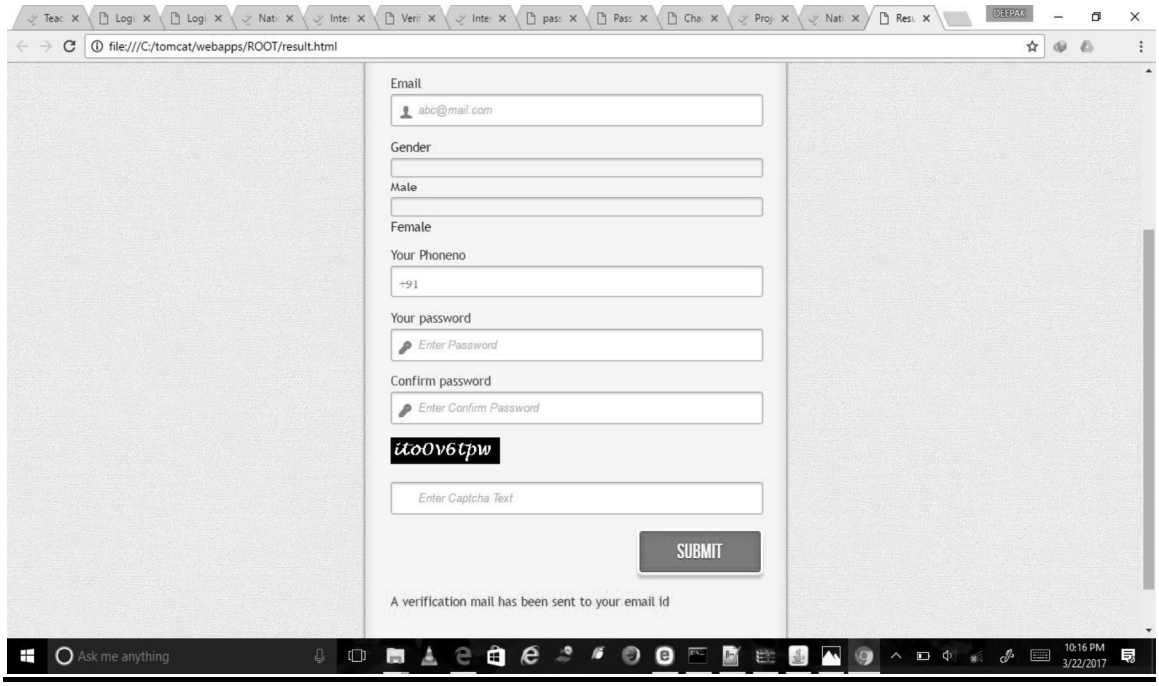

Fig 5.3: E-mail Verification link sent once registered successfully

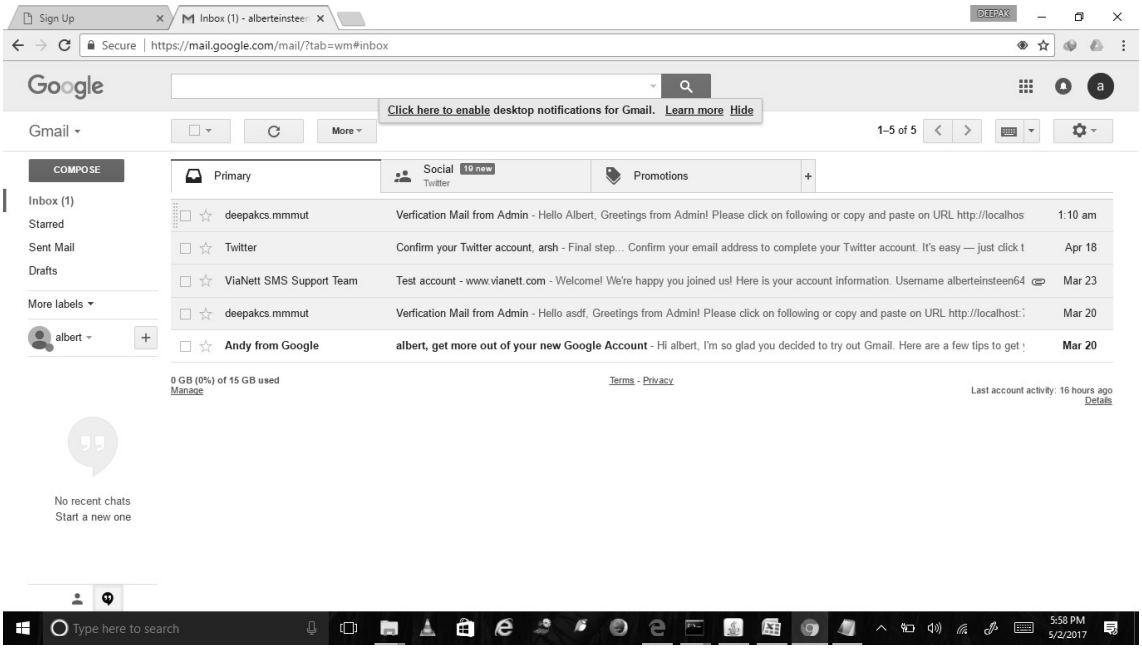

Fig 5.4: E-mail Verification link sent once registered successfully

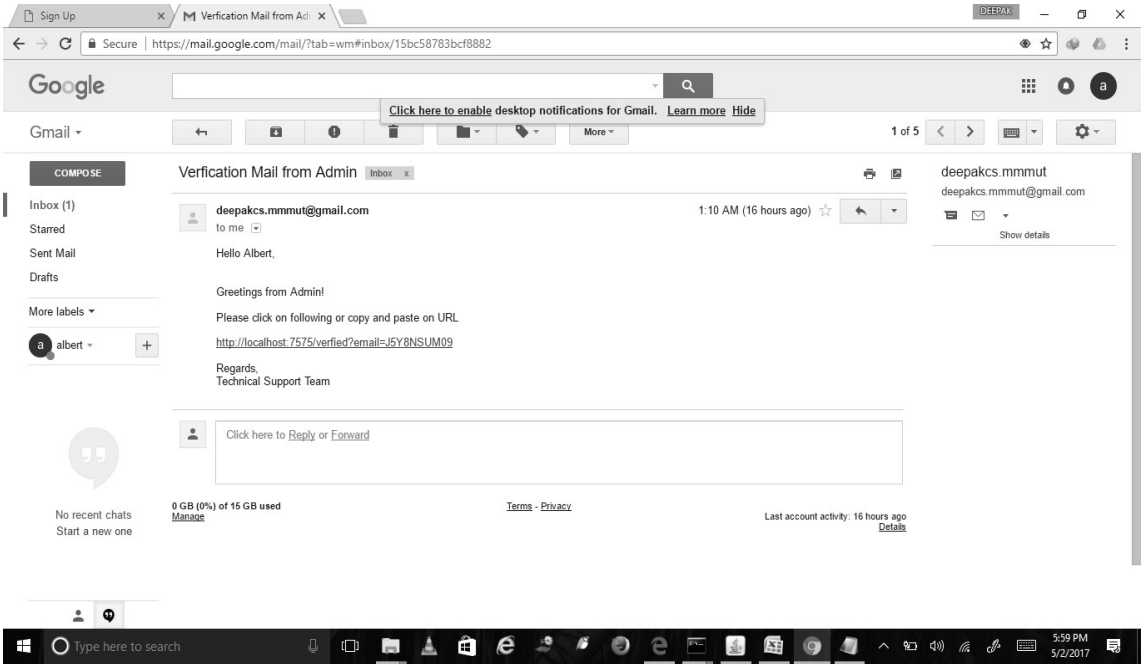

Fig 5.5: Verification Mail

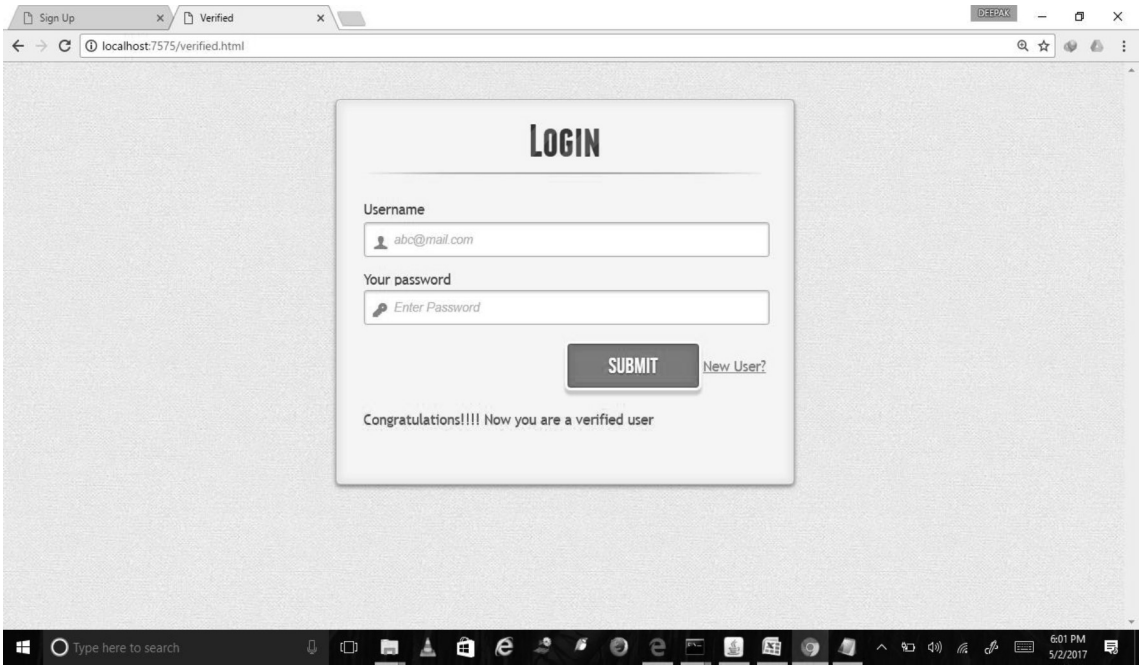

Fig 5.6: Login Page opened once successfully verified

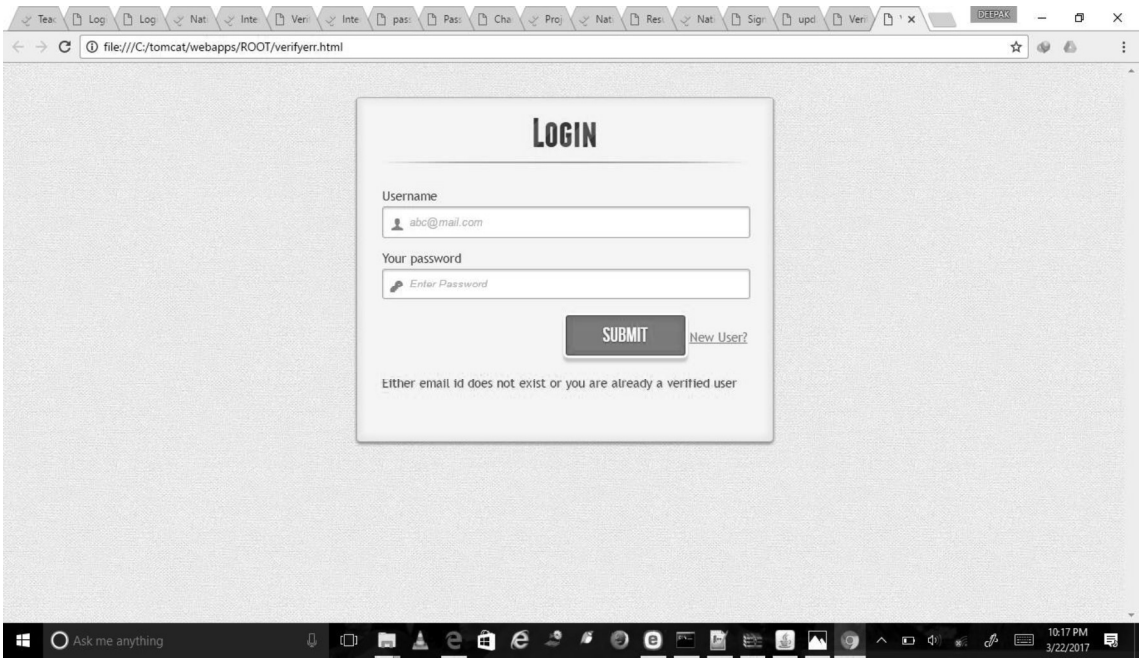

Fig 5.7: Login page in case of error

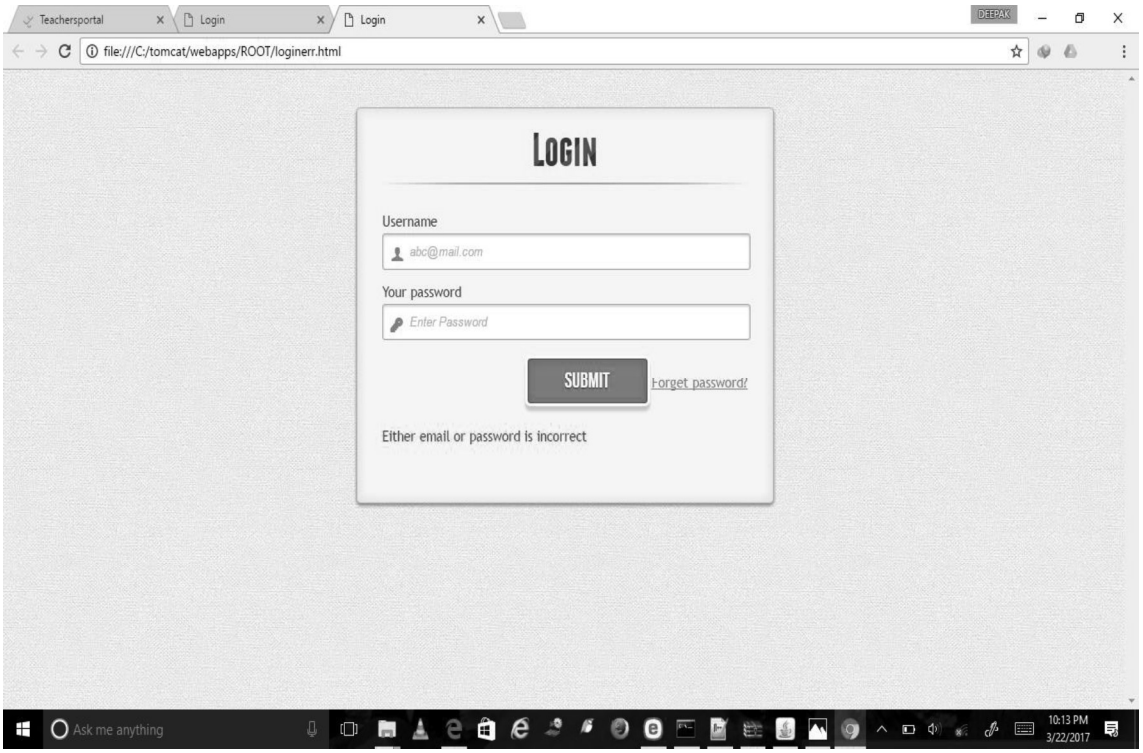

Fig 5.8: Login Page when wrong credentials entered

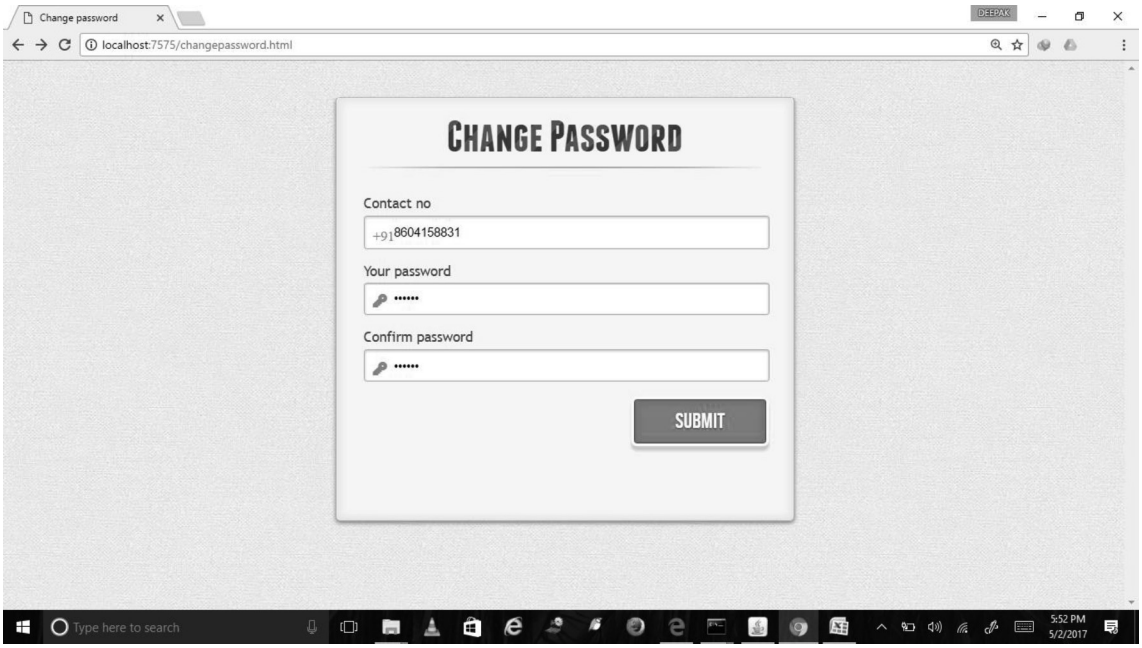

Fig 5.9: Change Password Page

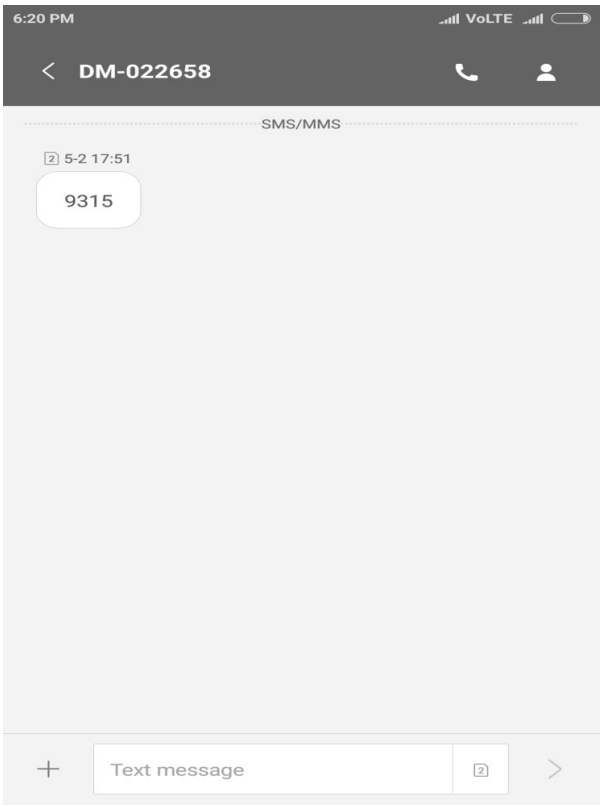

Fig 5.10: OTP received on registered mobile number

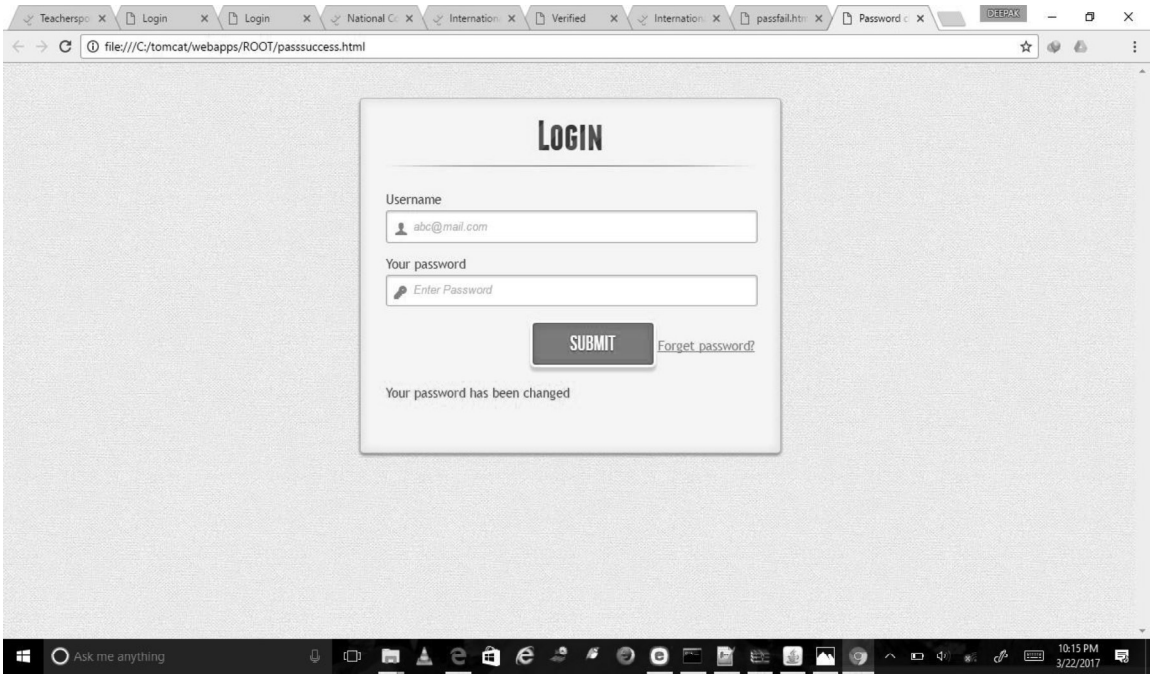

Fig 5.11: Password Successfully Changed

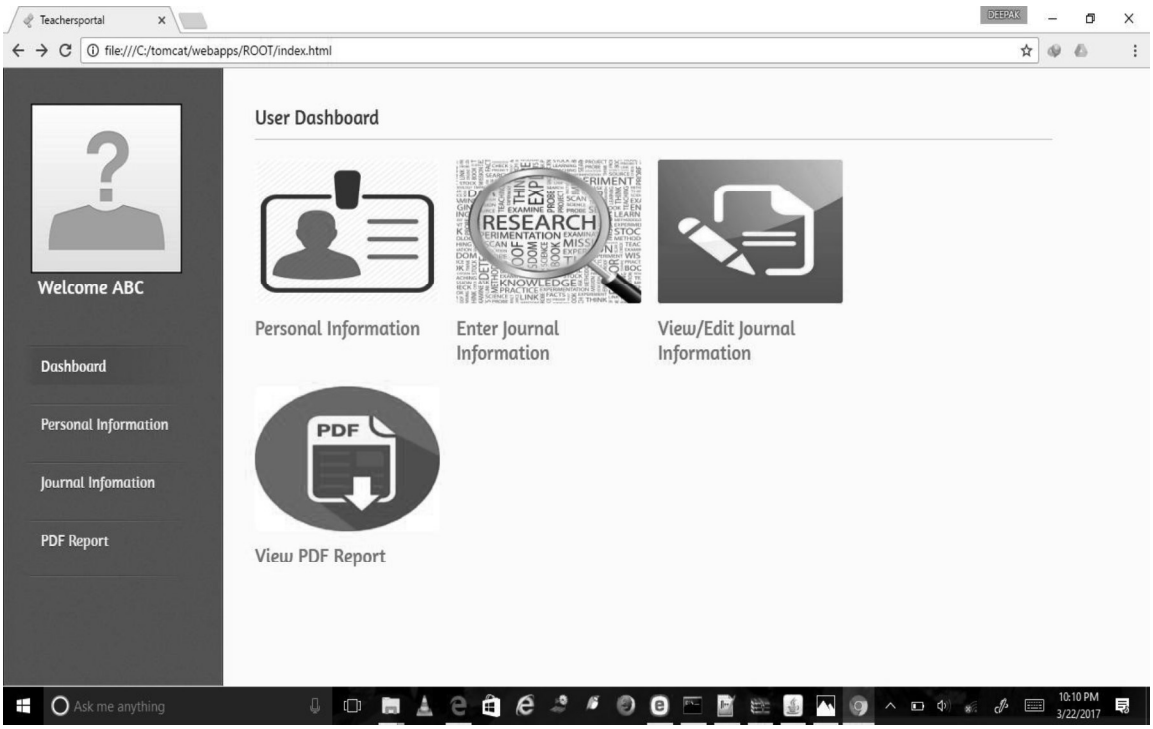

Fig 5.12: User Dashboard

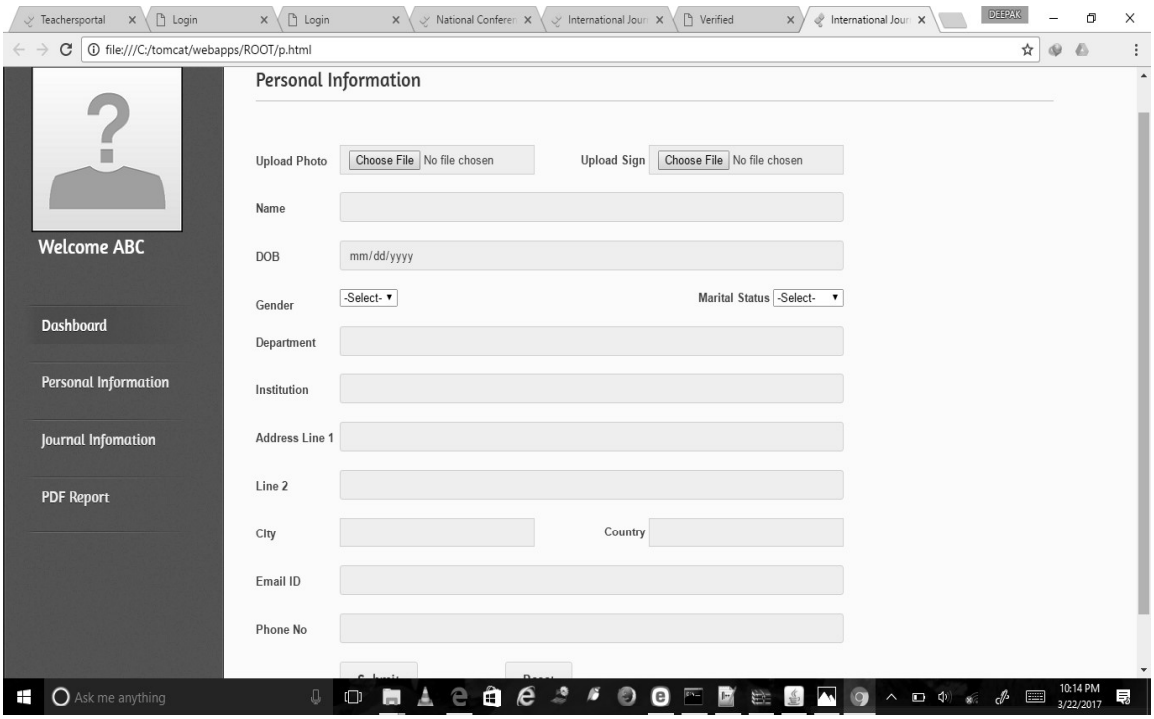

Fig 5.13: User Personal Information Page

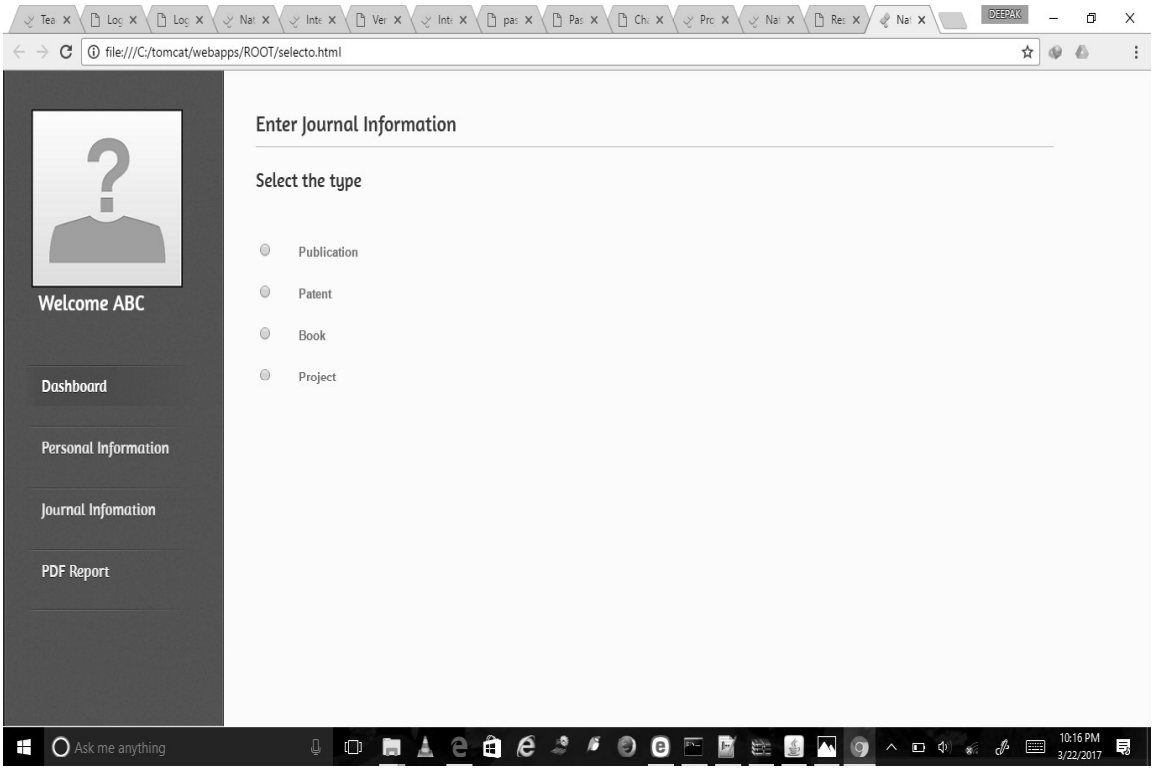

Fig 5.14: Type of Information Entry Page

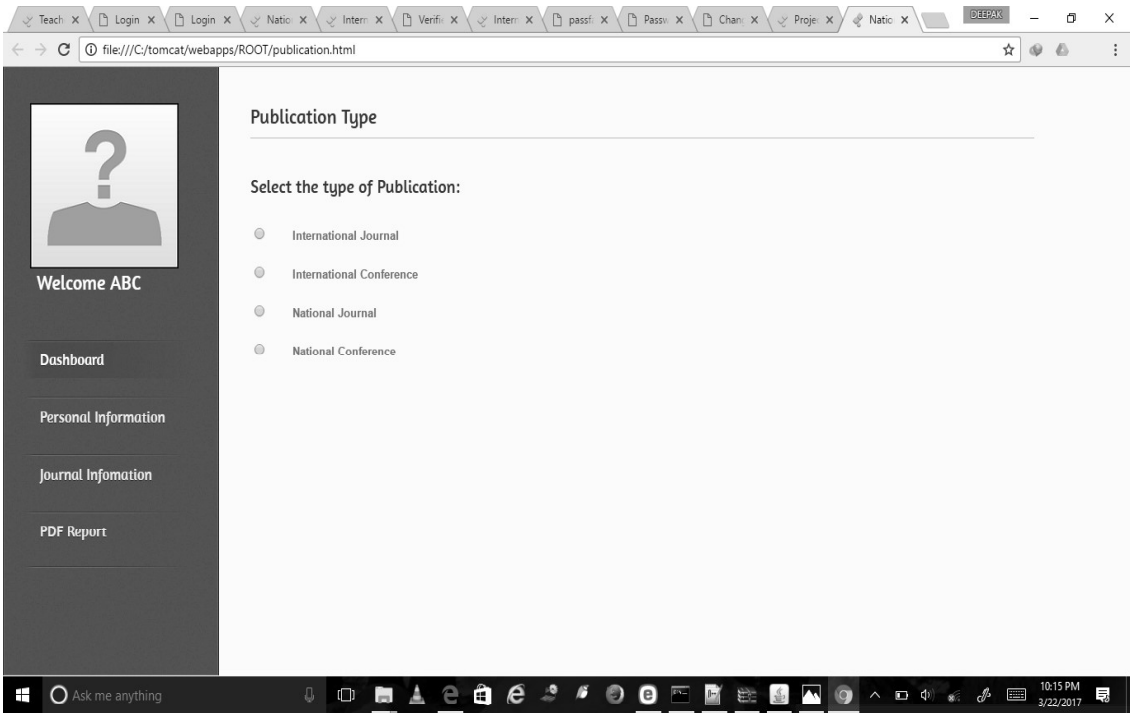

Fig 5.15: Publication Type Selection Entry Page

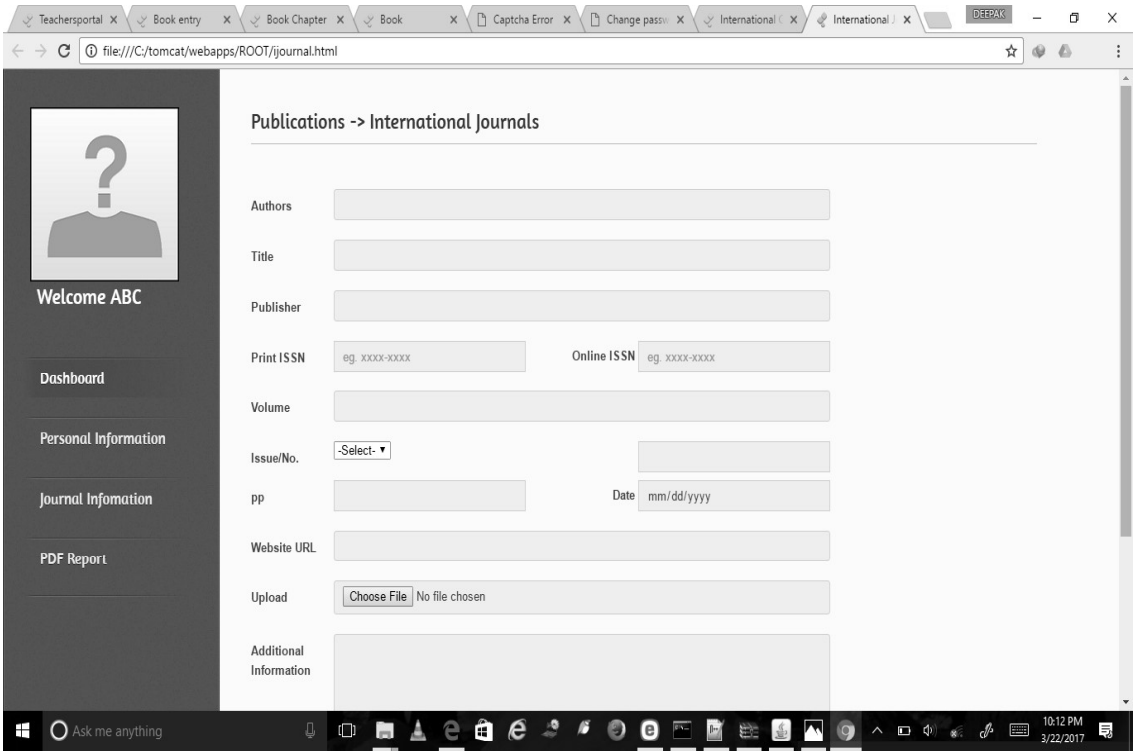

Fig 5.16: International Journal Information Entry Page

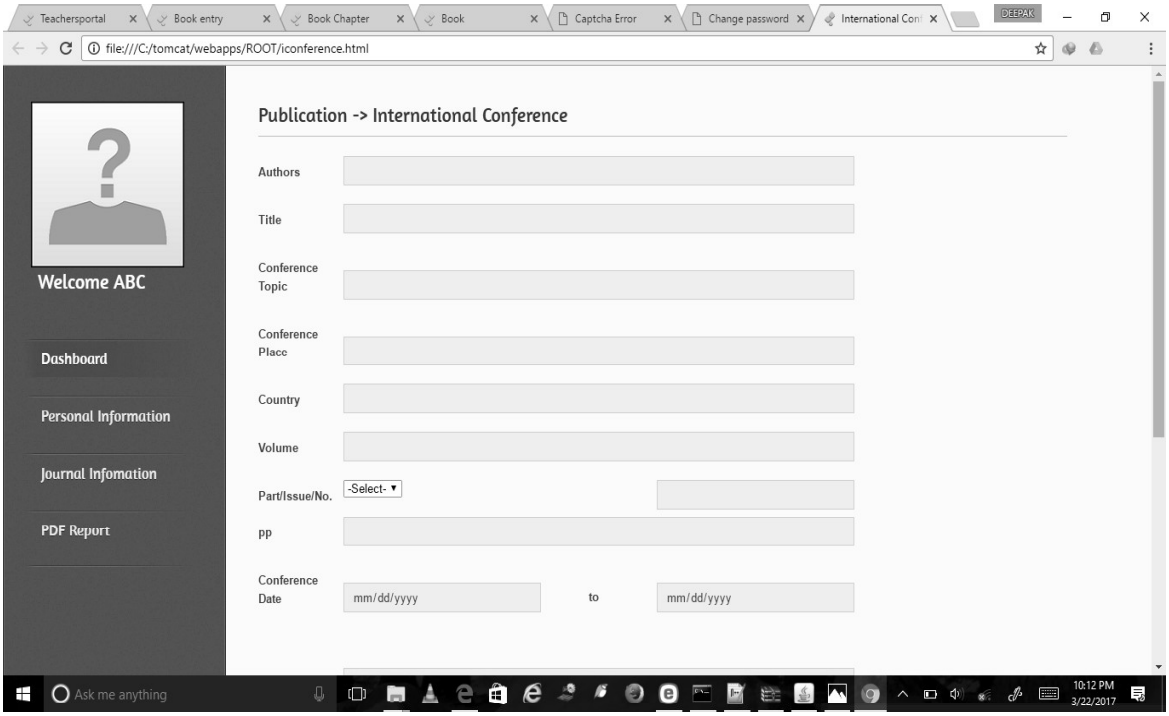

Fig 5.17: International Conference Information Entry Page

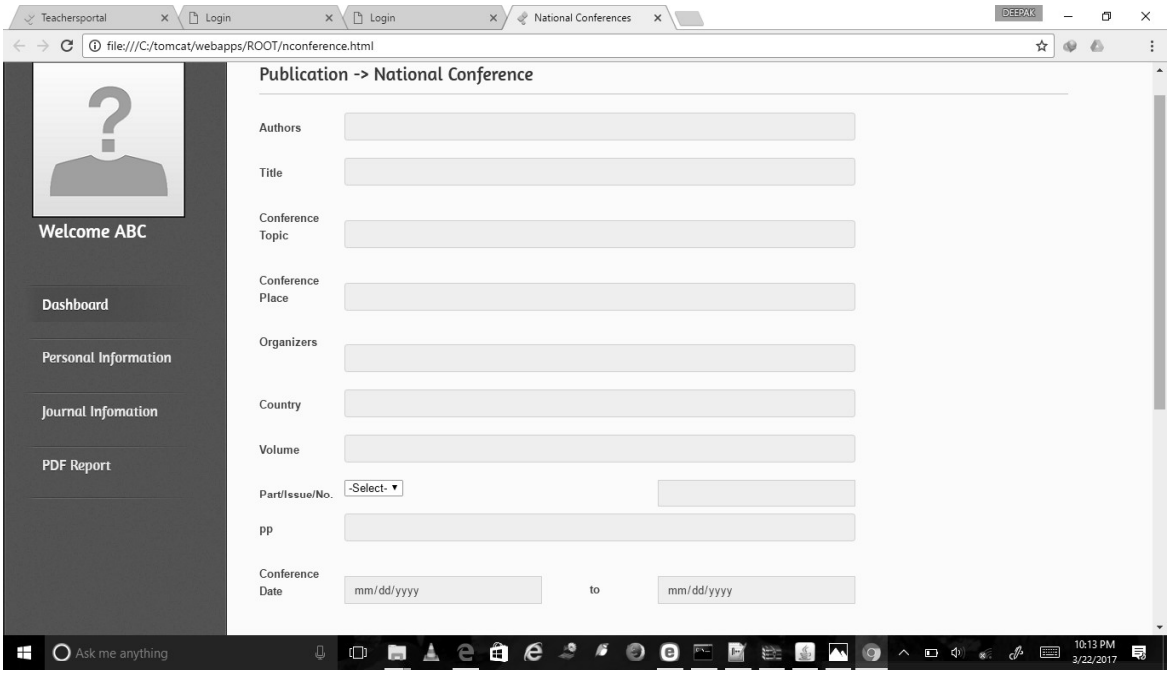

Fig 5.18: National Conference Information Entry Page

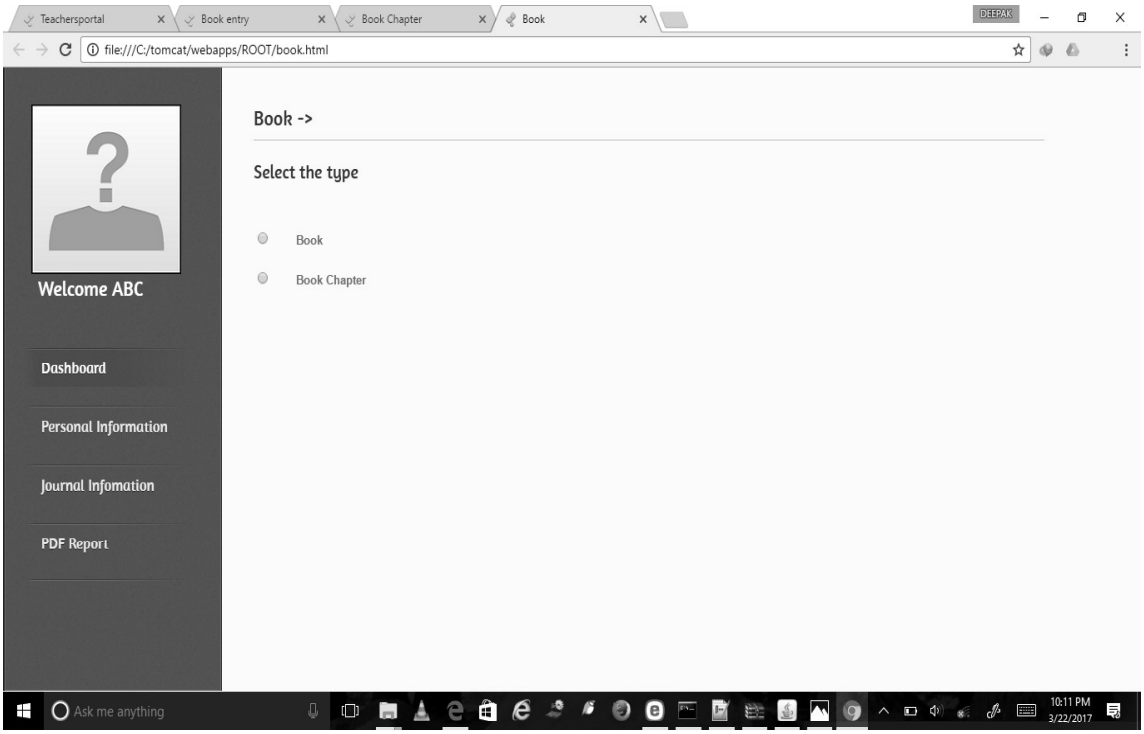

Fig 5.19: Type of Book Information Entry Page

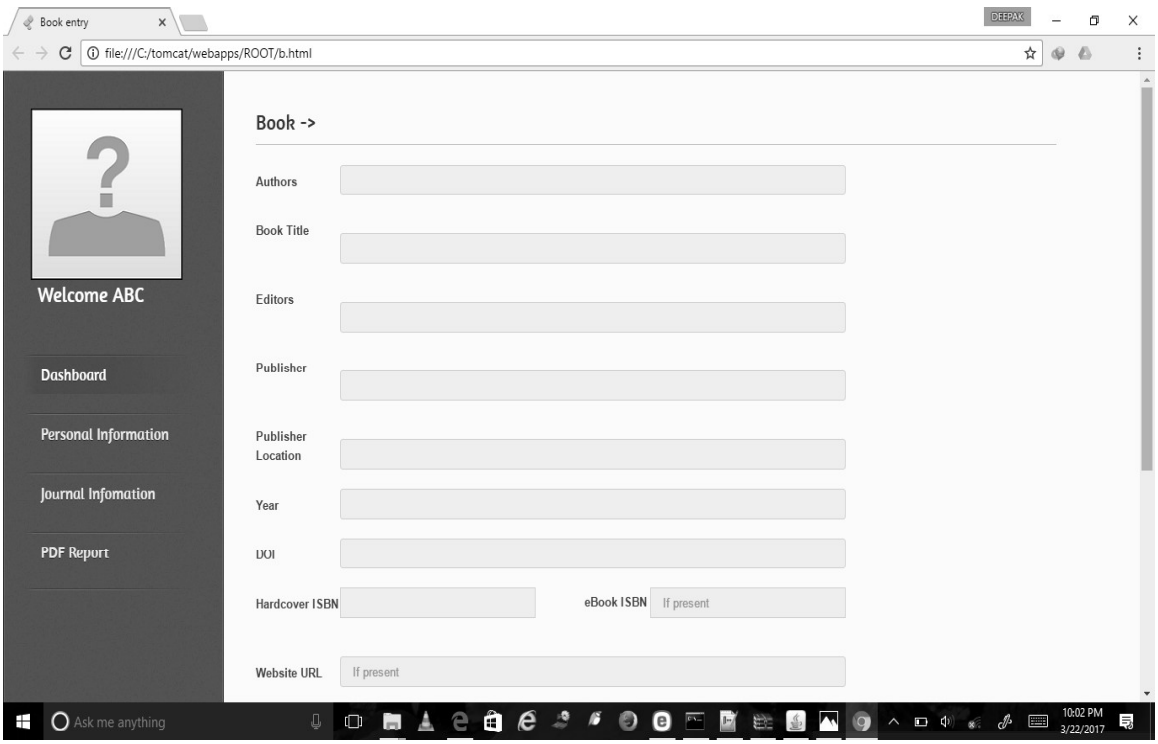

Fig 5.20: Book Information Entry Page

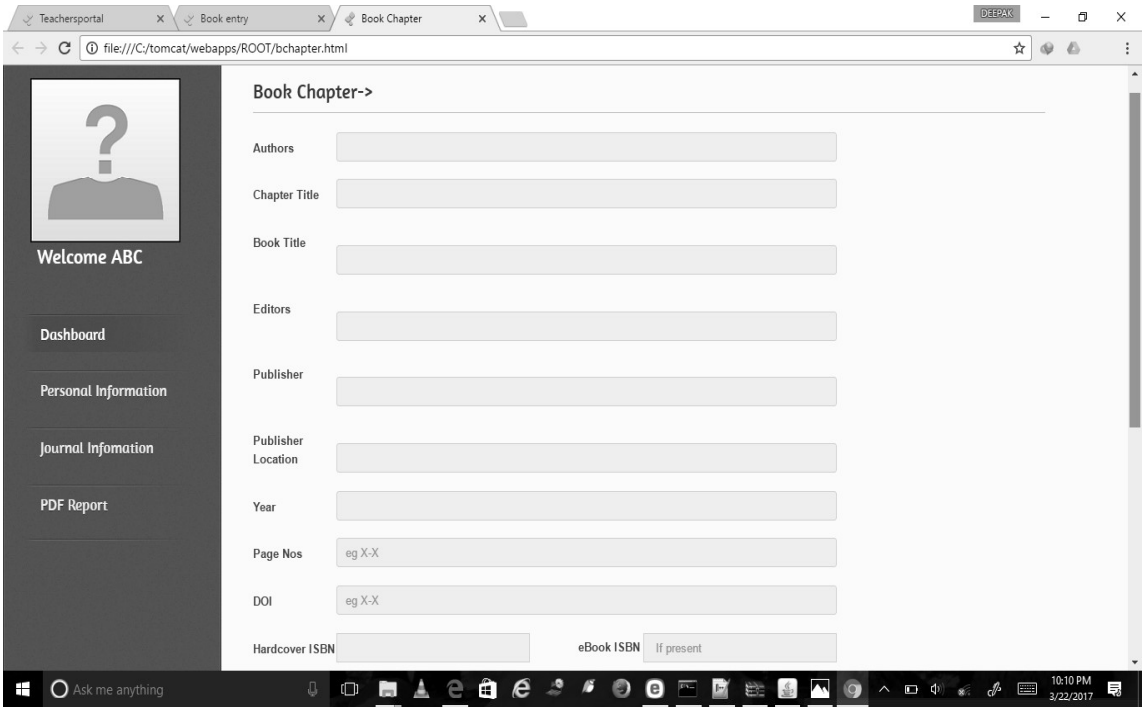

Fig 5.21: Book Chapter Information Entry Page

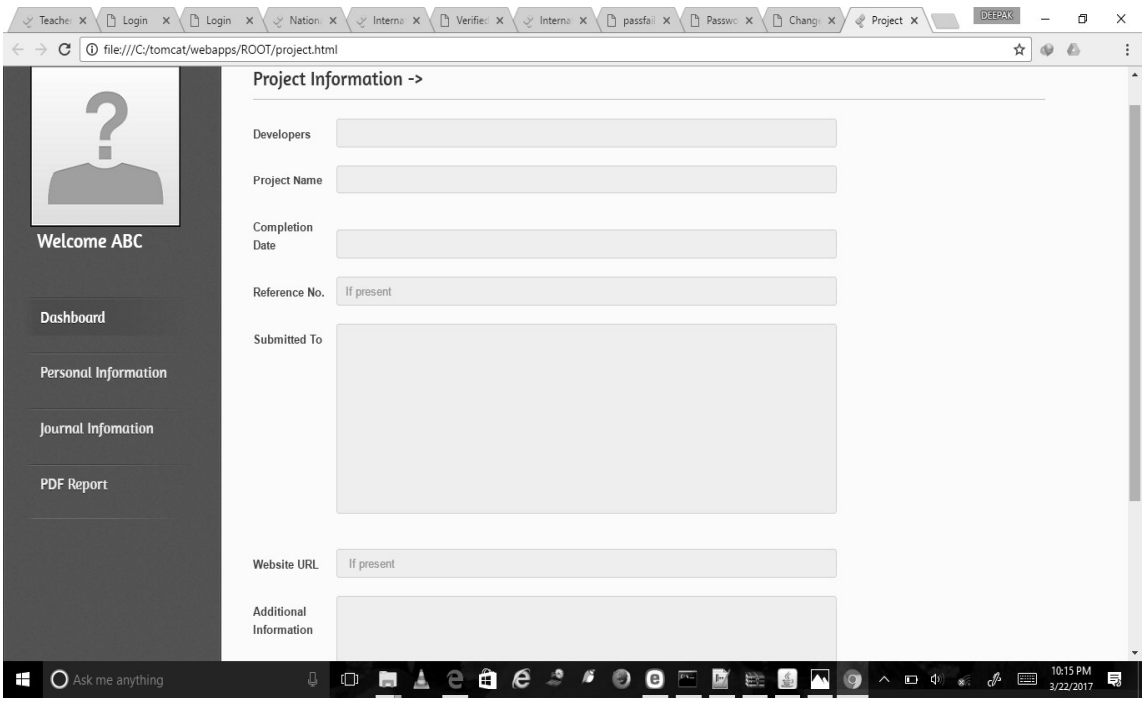

Fig 5.22: Project Information Entry Page

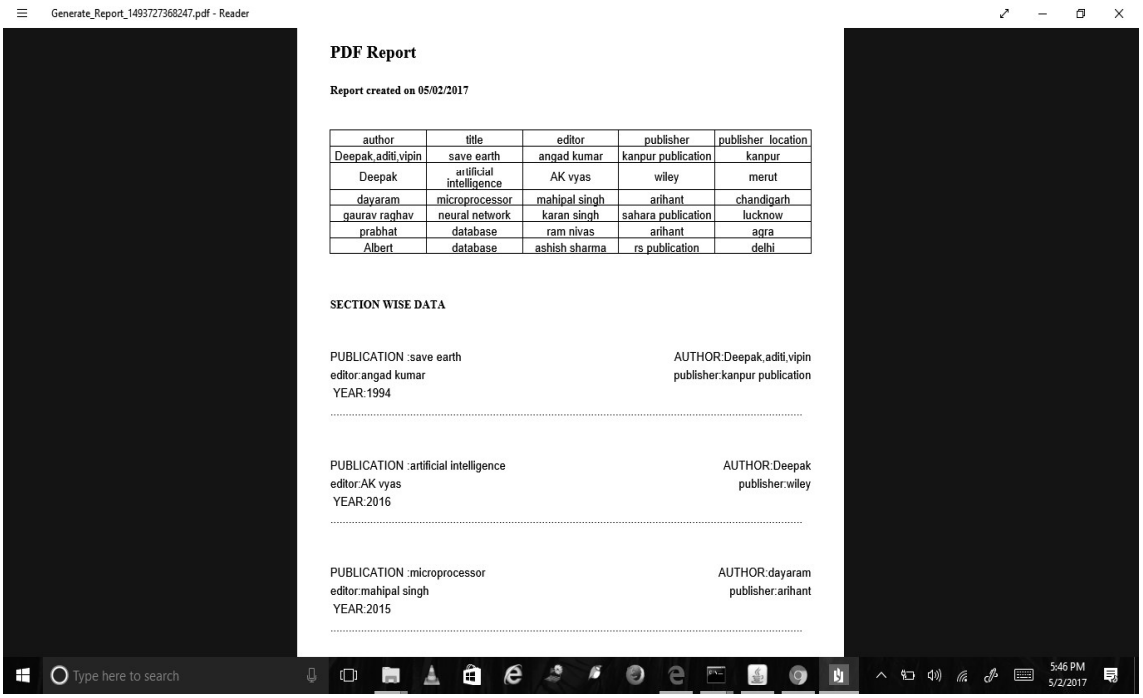

Fig 5.23: PDF Report generated

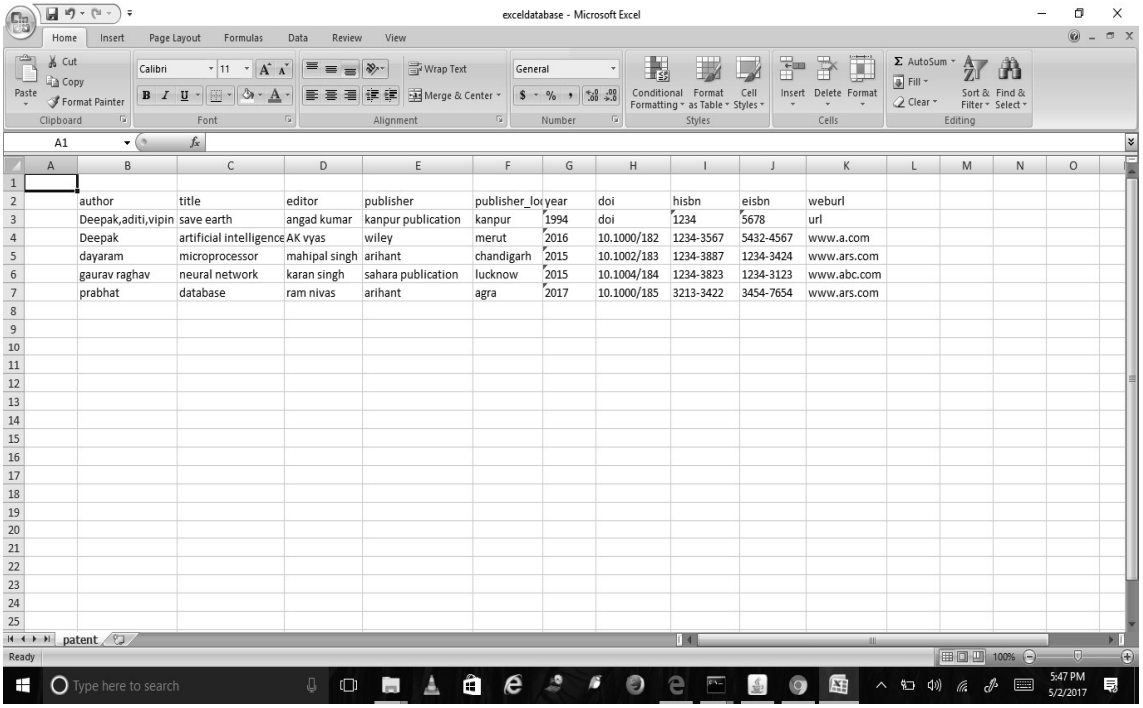

Fig 5.24: Excel Sheet generated

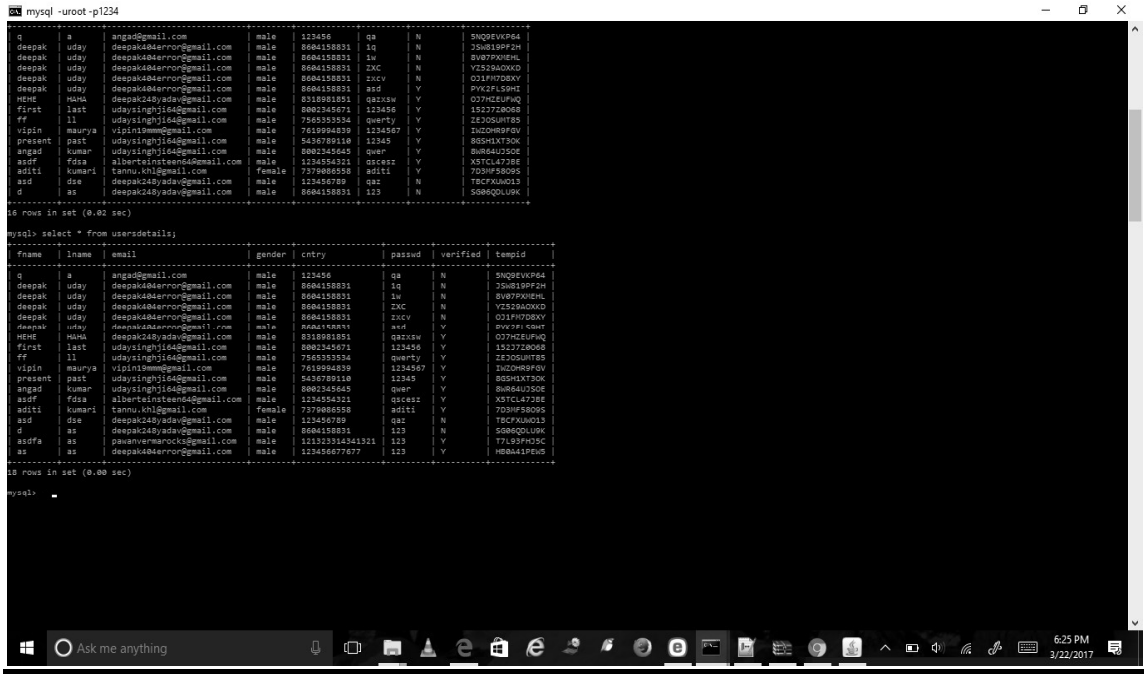

Fig 5.25: userdetail table in MySQL Database

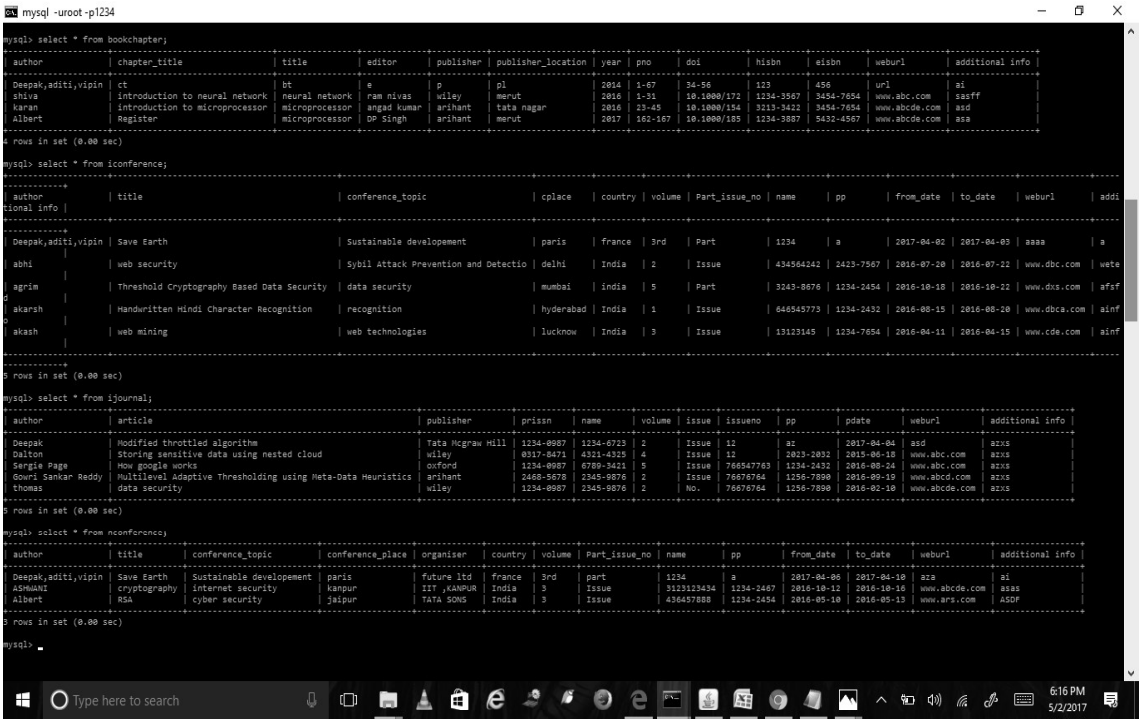

Fig 5.26: bookchapter, iconference table in MySQL Database

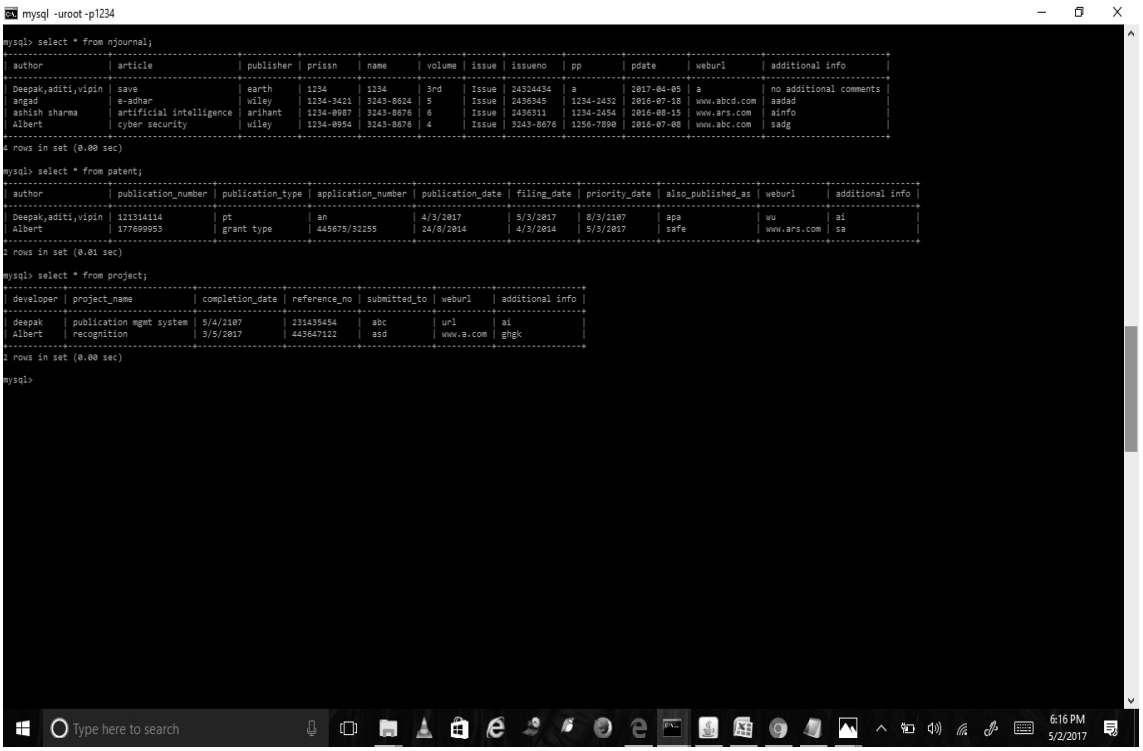

Fig 5.27: njournal, patent, project table in MySQL Database

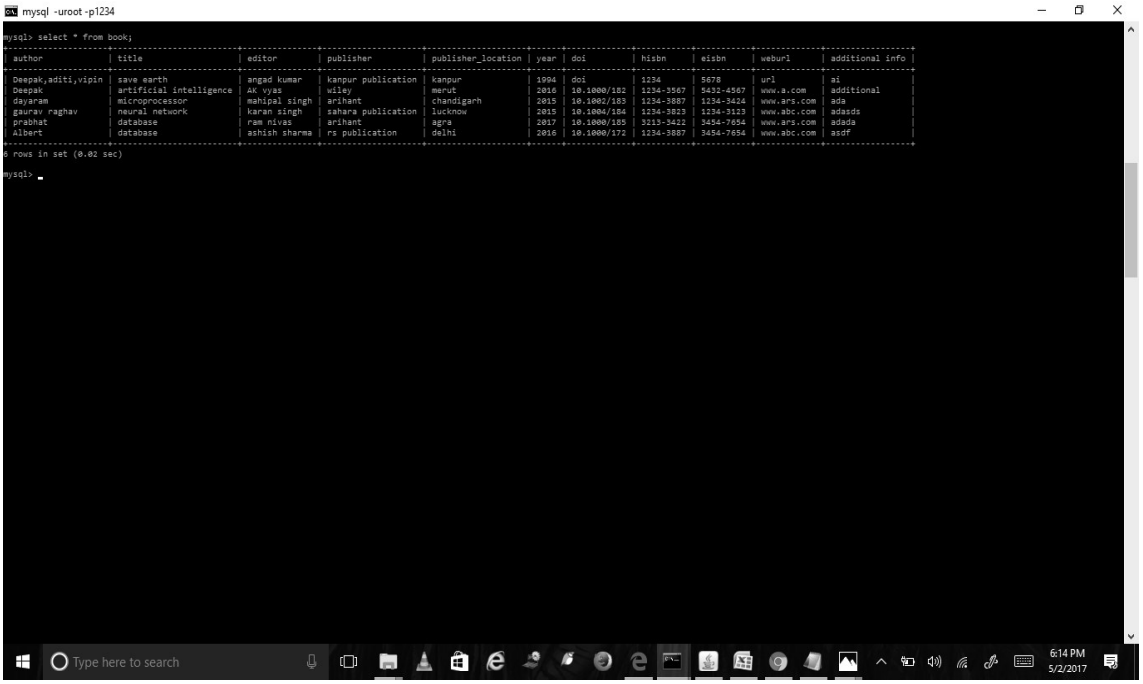

Fig 5.28: book table in MySQL Database

CHAPTER 6: CONCLUSION

In whole procedure to prepare project, we first gather the requirement of the project and decide the time schedule. After planning we design the documentation of project. After the design we generate the code of system. In design the code we do the error estimation and effort estimation. If error occurs then the error is solved. Finally when code is designed then project is tested.

Definitely, this website is easy to use. It can be used for both small as well as at large level. This website can be used by university's teachers to generate the PDF copy containing information regarding their publications, patents, books and projects. This project has made the tedious job of teachers information collection easy.

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CHAPTER 7: REFERENCES

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- https://www.researchgate.net/
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