



**Parshvanath Charitable Trust's
A. P. SHAH INSTITUTE OF TECHNOLOGY, THANE**
(All Programs Accredited by NBA)

Department of Information Technology



GENESIS: A LEARNING PLATFORM

Presented by:

Devanshu Mahapatra(20104036)

Subhashish Mahapatra (20104049)

Athul Nair (20104048)

Nishank Jain (20104046)

Project Guide

Prof. Vishal Badgujar

CONTENTS

1. Introduction
2. Objectives
3. Scope
4. Features/ Functionality
5. Project Outcome
6. Technology Stack
7. Block Diagram

1. Introduction

- ▶ The Project “Genesis” is developed in JAVA language. It mainly focuses on basic operations of an institute’s database information system. Like Inserting, Deleting, Editing information regarding students , faculty and the library.
- ▶ Using this application, a user can get every information about an Institute’s database and download reference material.
- ▶ The implementation of Genesis starts with integrating Library with College Management System and Student Database.
- ▶ The application is tasked with entering and updating master records like Student and Faculty Details, Library Information and Downloading eBooks etc.
- ▶ The records can be further managed by the user based on their access level.

2. Objectives

- ▶ To provide a friendly environment to maintain the details of books and college infrastructure.
- ▶ To maintain easy circulation system using computers and to provide automated reports rather than the traditional way.
- ▶ To improve customer service through greater access to accurate information and user friendly GUI.
- ▶ To increase efficiency of Academic Management.
- ▶ To achieve greater accountability and transparency in operations.

3.Scope

- Can be applied in Coaching Institutes, Industries, Colleges, Schools etc.
- Useful for the students, faculty and the administration

4. Features/ functionality

1. Log in/ Apply Now/ Forget password

- Log in and Apply now helps user to register and login themselves which gives a security to the user by preventing unauthorized actions and thus protects the data. If user Forget password they able to change password.

2. Home Screen

- Combo boxes are added to the dashboard which makes it easier for the user to select the branch, department and course through which they can view or edit the data according to their convince.

3. The user of the system are

- Admin
- Faculty
- Students
- The software provides excellent graphical interface for the user through which they can perform various tasks such as create, update and view details.
- The user should be a part of the institute where this software is being implemented.

5. Project Outcomes

- ▶ User will be able to login & Signup if in case user forget their password then they can change their password too.
- ▶ User will be able to access the Homepage.
- ▶ User will be able to maintain the records of students, Faculty and Library based on their access level
- ▶ Records of every student, faculty and books issues in library are available with their scanned copy. The E books can be downloaded in .zip format
- ▶ Only Registered Users can view the data and download books while only the admin and faculty members can edit the details . Thus providing protection to the data.

6. Technology Stack

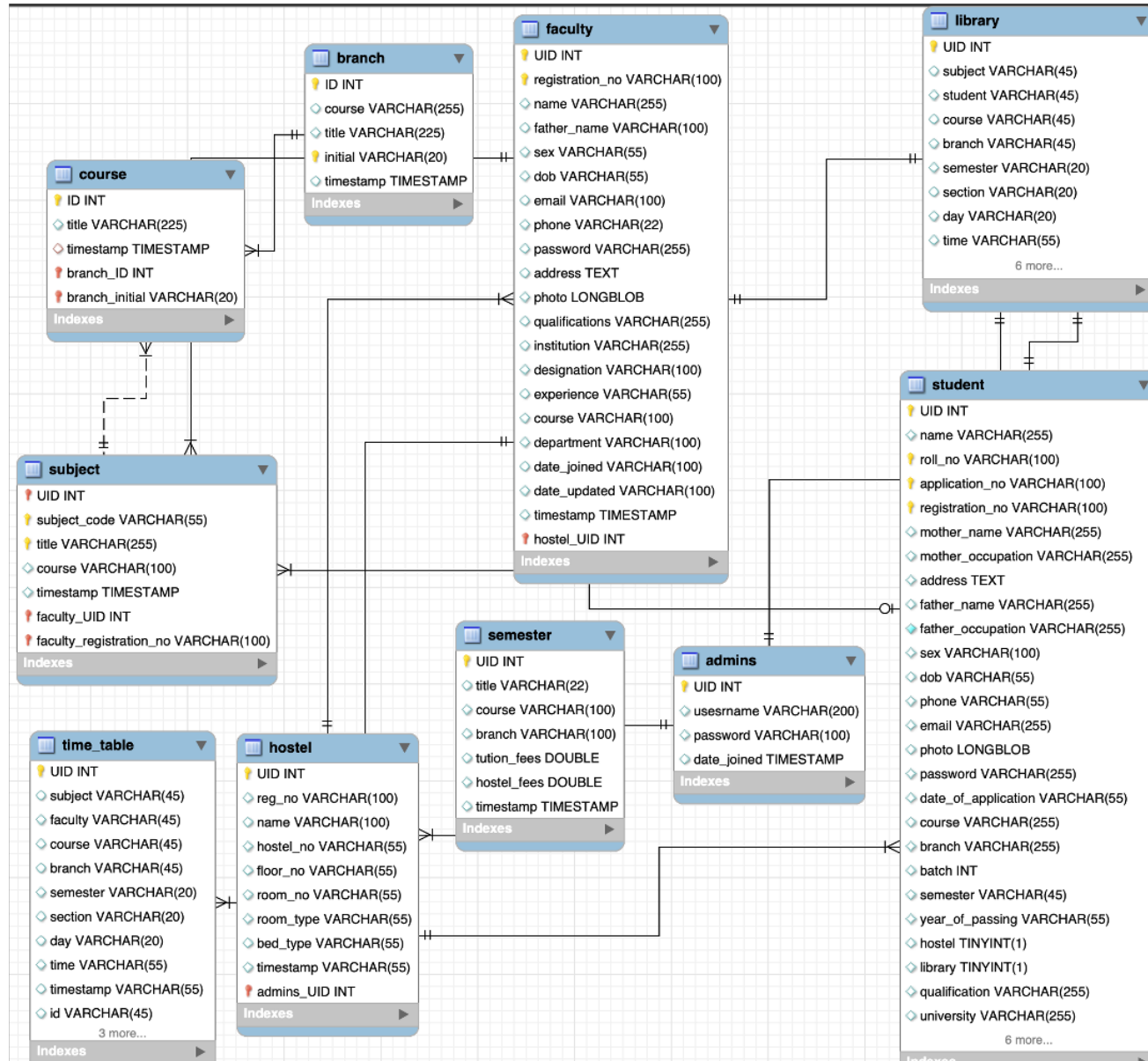
Hardware Requirements: -

- ▶ Hard Drive: 20 Gb or more
- ▶ RAM: 200 Mb and above
- ▶ Processor: Intel i3 and above, M1 and above

Software Requirements: -

- ▶ Operating System: Windows 7 and above , MacOS X and above
- ▶ Database: MySQL JDBC Connector
- ▶ Server: MySQL Community Server
- ▶ Language: Java (16.0.1)
- ▶ Framework: Java Framework
- ▶ Development Tools: Eclipse IDE

7. Block Diagram



THANK YOU