VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Internship Report

on
"CLASS TIME TABLE ANDROID APPLICATION DEVELOPMENT"

A report submitted in partial fulfillment of the requirements for the award a degree of

BACHELOR OF ENGINEERING

in

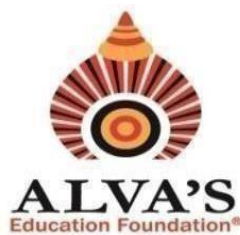**COMPUTER SCIENCE AND ENGINEERING**

Submitted by

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Under Supervision of

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

MOODBIDRI-574225, KARNATAKA

2023 – 2024

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

MOODBIDRI-574225, KARNATAKA

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE

This is to certify that the Internship report on " CLASS TIME TABLE ANDROID APPLICATION DEVELOPMENT " submitted by ASHWINI (4AL20CS025) is work done by him and submitted during the academic year 2023–24, in partial fulfilment of the requirements for the award of the degree of **BACHELOR OF ENGINEERING** in **COMPUTER SCIENCE AND ENGINEERING**

BY 8/5/24

Internship Mentor
Department of CSE

Internship Coordinator
Department of CSE

Head of the Department
Department of CSE

Examiners

Name   Signature

1)

2)

Acknowledgement

First I would like to thank **QSpiders** for giving me the opportunity to do an internship within the organization.

I also would like all the people that worked along with me in **QSpiders** with their patience and openness they created an enjoyable working environment.

It is indeed with a great sense of pleasure and immense sense of gratitude that I acknowledge the help of these individuals.

I am highly indebted to Managing Trustee **Mr. Vivek Alva** and Principal **Dr. Peter Fernandes, Alva' Institute of Engineering and Technology, Mijar** for the facilities provided to accomplish this internship.

I would like to thank my Head of the Department **Dr. Manjunath Kotari, Professor, Department of Computer Science and Engineering** for his constructive criticism throughout my internship. 5

I would like to thank my internship Coordinator **Dr.Bramha Prakash H P, Associate Professor, Department of Computer Science and Engineering** for his guidance throughout my internship.

I am extremely grateful to my department staff members and friends who helped me in successful completion of this internship.

ASHWINI

4AL20CS025

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ASHWINI

For the successful completion of **45 days of Internship Program** on the topic *"Java/Python Full Stack Development, Data Structures & Algorithms, Artificial Intelligence & Machine Learning, Aptitude and Soft Skill Training"* conducted by Training & Assessment Partners and IIIT Allahabad during March/April and August 2023.

Head - Training and Placements

Head of the Department

Principal

Alva's Institute of Engineering & Technology, Moodbidri
(Accedited by NAAC with A+ and NBA New Delhi(CSE & ECE))
https://aiet.org.in

ABSTRACT

QSpiders is a best-in-class learning solutions organization headquartered in India's IT capital, Bangalore. It offers a wide range of courses in the area of software testing and are official partners of the ISTQB. A "finishing school" in many ways, the institute provides young job aspirants the perfect launch-pad to build a rewarding career in the growing IT sector. From its humble beginnings, QSpiders has exponentially grown to be the world's largest software testing training organization spread across countries. At QSpiders, It ensure training is imparted by specialists with proven subject matter expertise and who have spent over a decade in their area of specialization. Its faculty are highly competent, skilled and dedicated to giving their best towards the professional development of students.Besides training, It also provide placement assistance to our students and most of the big corporates in the corporate world hire our trained talent. It is indeed our pleasure to have placed over thousands of job-seekers in various IT firms across India over the years with an aim to place thousands more! Building competency into over 5000 students a month, QSpiders is where talent meets opportunity andwe believe your search for the dream job or the dream professional ends here.

DAILY LOGS

DAY	DATE	TOPICS COVERED
Day 1-Day10	15/11/2022 – 25/11/2022	Core java
Day 11-Day 16	01/09/2023 – 05/09/2023	Advanced Java Concept
Day 17-Day 20	06/09/2023 – 09/09/2023	HTML, CSS, JavaScript
Day 21-Day 25	10/09/2023 – 15/09/2023	Data Structure and Algorithm
Day 26- Day 32	08/10/2023 – 14/10/2023	Artificial Intelligence and Machine Learning
Day 33-Day 45	15/10/2023 – 28/10/2023	MySQL

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INTERNSHIP OBJECTIVES

The main objective of this internship is to lean both backend and fronted technologies so that workers can work in any field of software development. To maximize the quality of work in the field of software development. It has been provided to impart practical problem-solving skills which in turn will enhance prospects of career growth. It has provided hands-on Experience which aim to gain practical, real-world experience in software development, testing, or related areas. They get the opportunity to work on actual projects and tasks, applying the knowledge they've gained in academic settings to real-world scenarios. Internships provide opportunities for interns to develop and enhance their technical skills, such as programming languages, software development methodologies, version control systems, etc. They may also improve their soft skills like communication, teamwork, problem- solving, and time management.

CHAPTER 1

INTRODUCTION

QSpiders is the world's ace software training organization with an aim to bridge the gap between the demands of the industry and the curriculum of educational institutions. With centers across the Globe, the institute is a platform where young minds are given the opportunity to build successful careers. The company vision is to build an employee fit for agileworkspace and provides more software related course which will help us to enlighteningour carrier. The company is mainly focusing on Software Development, Software Testing, CoreJava and Selenium, API Testing, Java Full Stack Development etc. The company will providethe sufficient training which will be helpful to crack the interview offered by other companies.It also provides placement opportunities for both graduates as well as students in different MNC's. QSpiders, JSpiders and PySpiders hold the record of supplying the highest number ofindustry-ready technical resources. They can supply over 3500 technical resources at any timeto meet the industry's demand.

Fig-1.1 Logo of QSpiders

CONTACT DETAILS:

Websites: https://www.qspiders.com/

Headquarters:

Bangalore

Year Founded:

2003

Company Type:

QSpiders is a private company based in Bangalore, India that provides training and placement services in software testing and other related fields. The company has several branches across India and offers courses in manual testing, automation testing, mobile testing, and more.

QSpiders has gained a reputation for providing quality training and has placed many of its students in top IT companies in India. The company has a team of experienced trainers who provide hands-on training to the students and help them build their skills in software testing.

While QSpiders has received positive reviews from many of its students and clients, it's important to note that individual experiences may vary. It's always a good idea to do your own research and read reviews before choosing a training provider.

Address:

01, Hayavadana Rao Rd, Basappa
Layout, Gavipuram Extention,
Kempegowda Nagar, Bengaluru,
Karnataka 560019
Email - enquiry@qspiders.com
Phone - 8951965854

CHAPTER 2

PROJECT DETAILS

PROJECT AREA/DOMAIN:

The goal of this internship is to develop time table application using Java, Mysql, DBMS, and Android mobile.

PROBLEM STATEMENT:

The app's main aim is to facilitate users through handheld devices (Android Devices), to add the time, location, and Tasks they want to perform on that Time. When they reach Alarm, remind them by Mobile Application.

EXPLANATION OF WORKING OF PROPOSED IDEA:

No one yet develops a practical Timetable Management System Android App that encourages end-user and reminds them about their Classes Test perform at that time, so we begin to build up this App. This app will help users to save the records of their classes or tests and the details of Timetable etc.

Advantages of the Proposed System

The following are the advantages of the Timetable Management System Application:

- The Timetable Management System app will help users set their daily Timetable, Test reminders, etc.
- When the client reaches the additional Time, the App will demonstrate the update. so the client can check the application, which reminds them of their test or classes.
- Adding Timetable and setting Reminders can be easily performed by the user; there is no collaboration and no need for more training to get used to this App.
- Users will not be confused about their class time, Test date, especially Students, Teachers.

CHAPTER 3   METHODOLOGY

A Class Timetable Application is a digital tool designed to help students, teachers, and even parents keep track of their schedules and organize their academic lives effectively. It provides a centralized platform where users can create, manage, and access their timetables with ease, all in one place. Gone are the days of manually writing down class schedules on pieces of paper or relying on memory alone. Class Timetable Applications offer a range of features that make it simple to create, update, and customize timetables based on individual needs. Users can input their course names, lecture timings, locations, and any additional details, creating a comprehensive and personalized schedule that can be accessed anytime, anywhere. One of the key advantages of Class Timetable Applications is their ability to send reminders. Users can set up alerts for upcoming classes, assignments, exams, or even extracurricular activities, helping them stay on top of their commitments and manage their time effectively. With these reminders, users can plan their days, allocate study time, and make the most of their educational journey.

Additionally, Class Timetable Applications often come equipped with features that allow usersto sync their schedules across multiple devices and platforms. Whether using a smartphone, tablet, or computer, users can access their timetables seamlessly, making it easy to stay organized on the go. This synchronization feature ensures that any updates or changes made to the timetable are reflected across all devices, avoiding confusion and maintaining consistency.

Class Timetable Applications have revolutionized the way students, teachers, and parents manage their schedules and stay organized. With their user-friendly interfaces, customization options, reminders, and synchronization capabilities, these applications have become indispensable tools for academic success. By harnessing the power of technology, individuals can optimize their time management skills, increase productivity, and ultimately achieve their educational goals.

3.1 TOOL USED

Hardware Requirements:

The hardware requirements for a Class Timetable Application can vary depending on the specific platform and implementation

- Device: The application should be compatible with a wide range of devices, including smartphones, tablets, and computers. It should support popular operating systems such as iOS, Android, Windows, and macOS.

- Processor: A modern processor with sufficient processing power is recommended to ensure smooth performance of the application.

- Memory (RAM): Sufficient RAM is essential for smooth multitasking and handling the applications data. The exact RAM requirement will depend on the applications complexity and the number of concurrent users.

- Storage: The application itself may require a certain amount of storage space. Additionally, users will need storage space to store their timetables and associated data. The storage requirement will depend on the size and number of timetables being managed.

- Connectivity: The application should work seamlessly with both wired and wireless networks.

- Display: The application should be designed to work well with different screen sizes and resolutions

Software Requirements:

- Operating System: The application should be compatible with popular operating systems suchas iOS, Android, Windows, and macOS.

- Programming Language: The application should be developed using a programming language suitable for the target platform. For example, Java or Kotlin for Android.

- Database Management: A database system is necessary for storing and retrieving timetable data.

- Security Measures: To protect user data and ensure secure access, the application should implement appropriate security measures.

CHAPTER 4

IMPLEMENTATION

SOURCE CODE

In this chapter the implementation details of the project have been specified.

Mainactivity.java

```java
package com.ulan.timetable.activities;

mport android.Manifest;

import android.content.Context;

import android.content.Intent;

import android.content.pm.PackageManager;

import android.net.Uri;

import android.os.Build;

import android.os.Bundle;

import android.widget.AdapterView;

import android.widget.ArrayAdapter;

import android.widget.Spinner;

import android.widget.TextView;

import androidx.annotation.NonNull;

import androidx.appcompat.app.ActionBarDrawerToggle;

import androidx.appcompat.app.AppCompatActivity;import

androidx.appcompat.widget.Toolbar;

import androidx.browser.customtabs.CustomTabsIntent;

import androidx.core.content.ContextCompat;

import androidx.core.view.GravityCompat;

import androidx.drawerlayout.widget.DrawerLayout;

import androidx.preference.PreferenceManager;

import  androidx.viewpager.widget.ViewPager;

import com.afollestad.materialdialogs.MaterialDialog;

public class MainActivity extends AppCompatActivity implements

NavigationView.OnNavigationItemSelectedListener {
```

```java
private ViewPager viewPager;

private static final int showNextDayAfterSpecificHour = 20;

@Override

protected void onCreate(Bundle savedInstanceState) {

setTheme(PreferenceUtil.getGeneralThemeNoActionBar(this));

super.onCreate(savedInstanceState);

setContentView(R.layout.activity_main);

ProfileManagement.initProfiles(this);

if (Build.VERSION.SDK_INT >= 25) {

ShortcutUtils.Companion.createShortcuts(this);

}

if (!PreferenceUtil.hasStartActivityBeenShown(this)) {

new MaterialDialog.Builder(this)

.content(R.string.first_start_setup)

.positiveText(R.string.ok)

.onPositive((v, w) ->startActivity(new Intent(this, TimeSettingsActivity.class)))

.show();

}

initAll();

public void deleteAll() {

new MaterialDialog.Builder(this)

.title(getString(R.string.delete_everything))

.content(getString(R.string.delete_everything_desc))

.positiveText(getString(R.string.yes))

.onPositive((dialog, which) ->{try

{

DbHelper dbHelper = new DbHelper(this);

dbHelper.deleteAll();

ChocoBar.builder().setActivity(this)

.setText(getString(R.string.successfully_deleted_everything))

.setDuration(ChocoBar.LENGTH_LONG)

.setIcon(R.drawable.ic_delete_forever_black_24dp)
```

```
.show();

initAll();

} catch (Exception e) {

ChocoBar.builder().setActivity(this)

.setText(getString(R.string.an_error_occurred))

.setDuration(ChocoBar.LENGTH_LONG)

.red()

.show();

}

})

try {

CustomTabsIntent customTabsIntent = new CustomTabsIntent.Builder()

.addDefaultShareMenuItem()

.setToolbarColor(PreferenceUtil.getPrimaryColor(this))

.setShowTitle(true)

.build();

// This is optional but recommended

CustomTabsHelper.Companion.addKeepAliveExtra(context, customTabsIntent.intent);

// This is where the magic happens...

CustomTabsHelper.Companion.openCustomTab(context, customTabsIntent,

Uri.parse(url),

new WebViewFallback());

} catch (Exception e) {

e.printStackTrace();

}
```

Activity_main_drawer.xml

```
<?xml version="1.0" encoding="utf-8"><

menu xmlns:android="http://schemas.android.com/apk/res/android;"

xmlns:tools="http://schemas.android.com/tools" tools:showIn="navigation_view">

<group
```

```
android:id="@+id/menu_top";

android:checkableBehavior="none">&<item

android:id="@+id/schoolwebsitemenu";

android:icon="@drawable/ic_open_in_browser_white_24dp";

android:title="@string/school_website"></group> android:id="@+id/summary"

android:icon="@drawable/ic_assignment_black_24dp"

android:title="@string/summary_activity_title"><item

android:id="@+id/exams"

android:icon="@drawable/ic_school_black_24dp"

android:title="@string/exams_activity_title"><item

android:id="@+id/teachers"

android:icon="@drawable/ic_people_black_24dp"

android:title="@string/teachers"><item

android:id="@+id/homework"

android:icon="@drawable/ic_book_black_24dp"

android:title="@string/homework_activity_title"><item

android:id="@+id/notes"

android:icon="@drawable/ic_event_note_black_24dp&quot;

android:title="@string/notes_activity_title"/> </group>

<item android:id="@+id/settings"

android:icon="@drawable/ic_settingsbl

ack_24dp"

android:title="@string/settings"/>

</group>

}
```
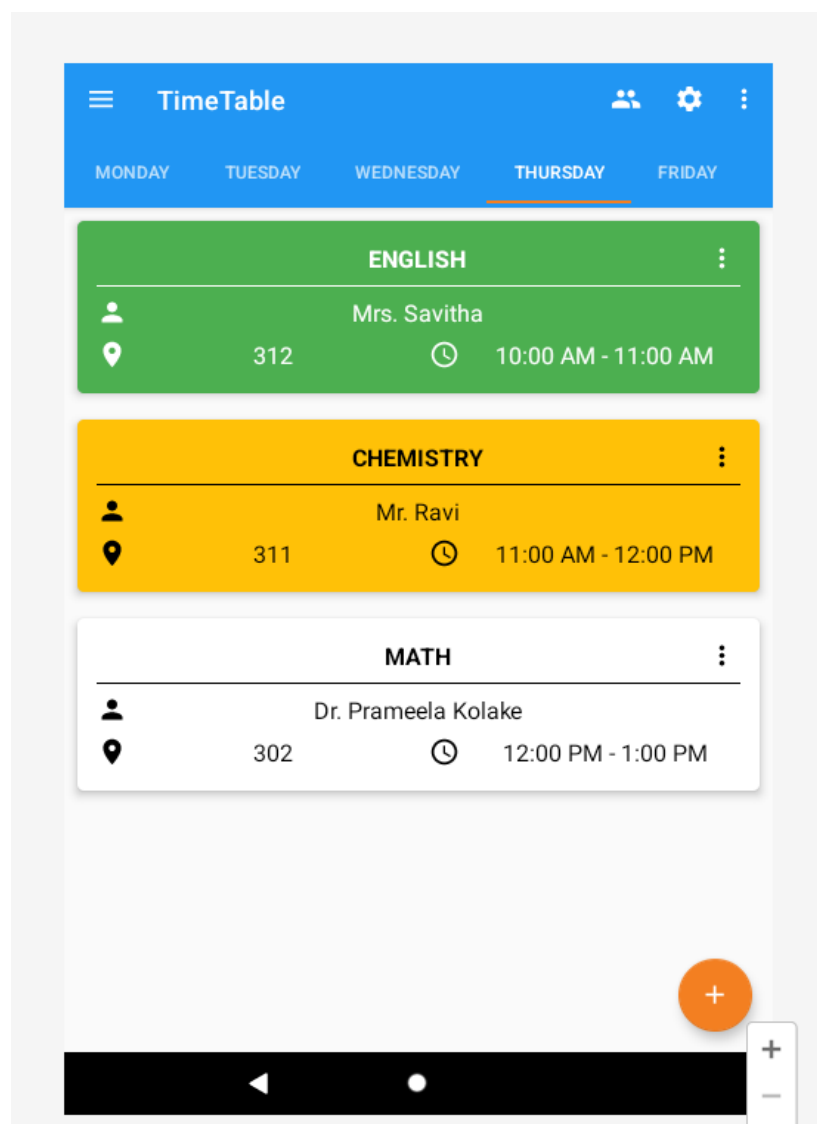
SNAPSHOTS

Fig 4.2.1 Snapshot of summary page

This page in the application will be showing us the upcoming schedules of a particular day.Here we can also add number of schedules.
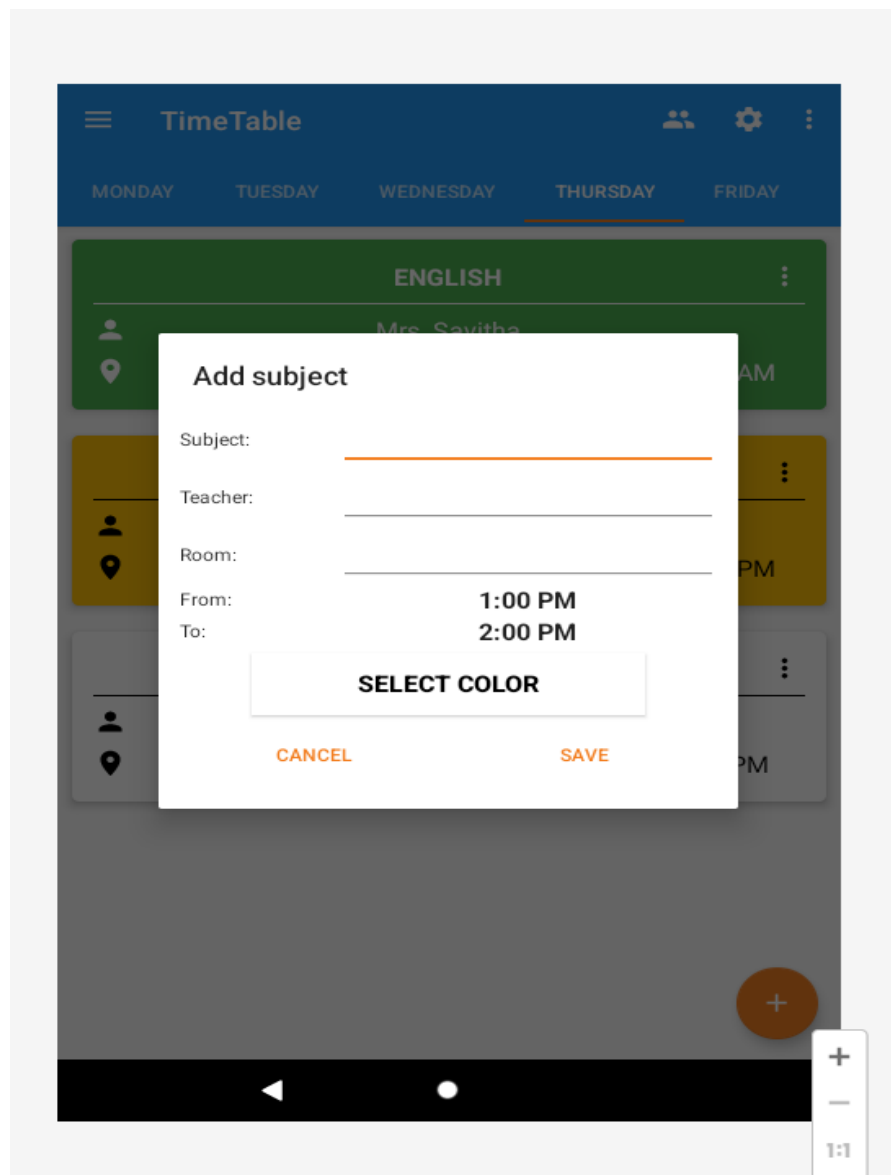
Figure 4.2.2 Snapshot of adding a schedule

Here we are adding our class with attributes like teacher name , room number , time and color (indicating for our reference how much important the upcoming schedule is) and lastly we have press the save button.
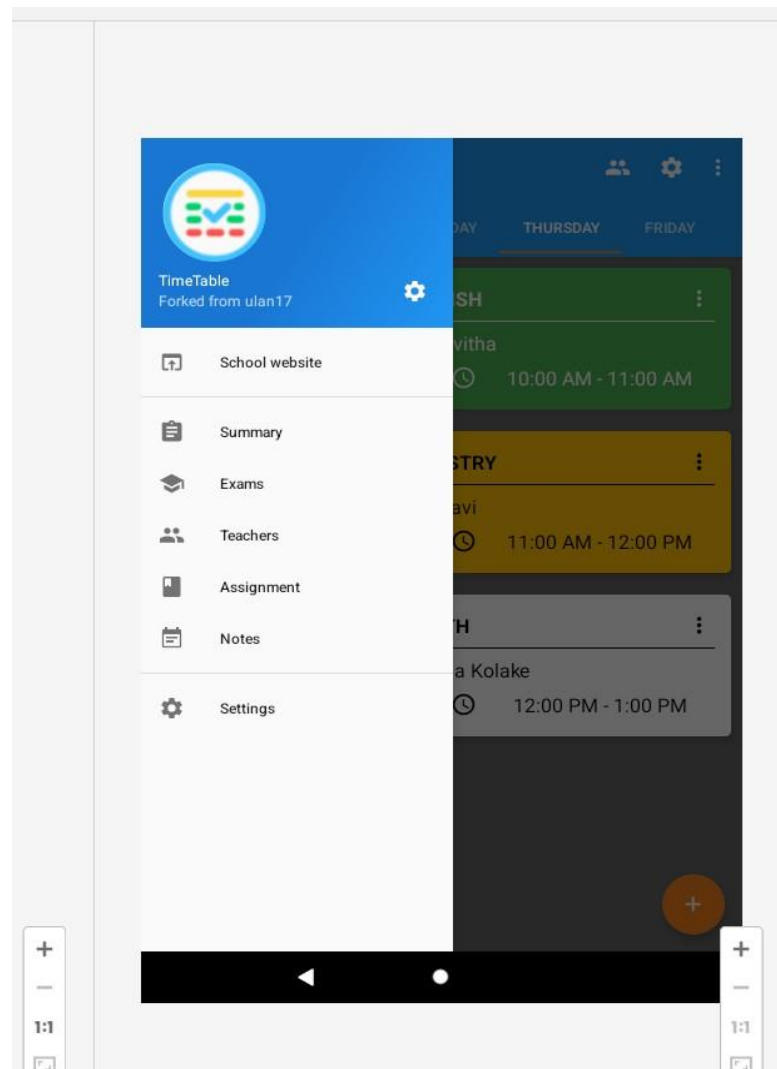
Figure 4.2.3 Snapshot of Table of contents

The figure shown above represents the table of contents for the Class Timetable Application, where users can individually add exams, homework assignments, and other academic activities to their schedules.

INTERNSHIP BENEFITS

CHAPTER 5

After Completing 90 days of internship in QSpiders Bangalore , I have got idea about different java frameworks, technologies in various IT field for real time application development. This internship help us to overcome the gap between the industrial needs. In these 30 days of internship I learnt lot of java technologies and frameworks like Maven Project, JDBC,Hibernate, Spring Boot, Spring MVC etc. It help me to learn basic knowledge of HTML, CSS, JavaScript andDatabase like MySQL and Oracle. Provides much knowledge about real time application development using software development practices. Learned to debugging the code to fix the error. Able to work with team and learned how to be a part of team during work. Learnt both frontend andbackend technologies for efficient application development.

CHAPTER 6   CONCLUSION

The project has been planned to be having the view of distributed architecture, with centralized storage of the database. The application for the storage of the data has been planned. Using the constructs of MySQL Server and all the user interfaces has been designed using the PHP technologies. The database connectivity is planned using the "MySQL Connection" methodology. The standards of security and data protective mechanism have been given a big choice for proper usage. The application takes care of different modules and their associated reports, which are produced as per the applicable strategies and standards that are put forwarded by the administrative staff.

REFERENCES

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