

# **Review 1**

## **J-Component** **Open Source Programming(ITE1008)**

**Slot: A1+TA1**

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## **ABSTRACT:**

We know that Vtop is an efficient college website dedicated to Students, Teachers, and Alumni. In this project we are automating some basic activities which are done manually in VIT vellore. We tried to automate activities such as **late night permission, room maintenance, teacher appointments**. All the activities which we are automating saves a lot of resources to VIT and saves the users time. We may also add a **better events page** where you can download templates for letters which are officially used in VIT for example Bonafide certificate letter, Apology letter formats. Where one can use these formats to edit and mail them to respective authorities which saves resources such as paper and also writing time. The main purpose of all these automations is to save a lot of paper used to do these activities. These automations are theoretically proven beneficial in a university scenario and saves some cost of revenue for the university as well. With these automations to Vtop, Vit can just discard a lot of registers.

## **Problem Statement:**

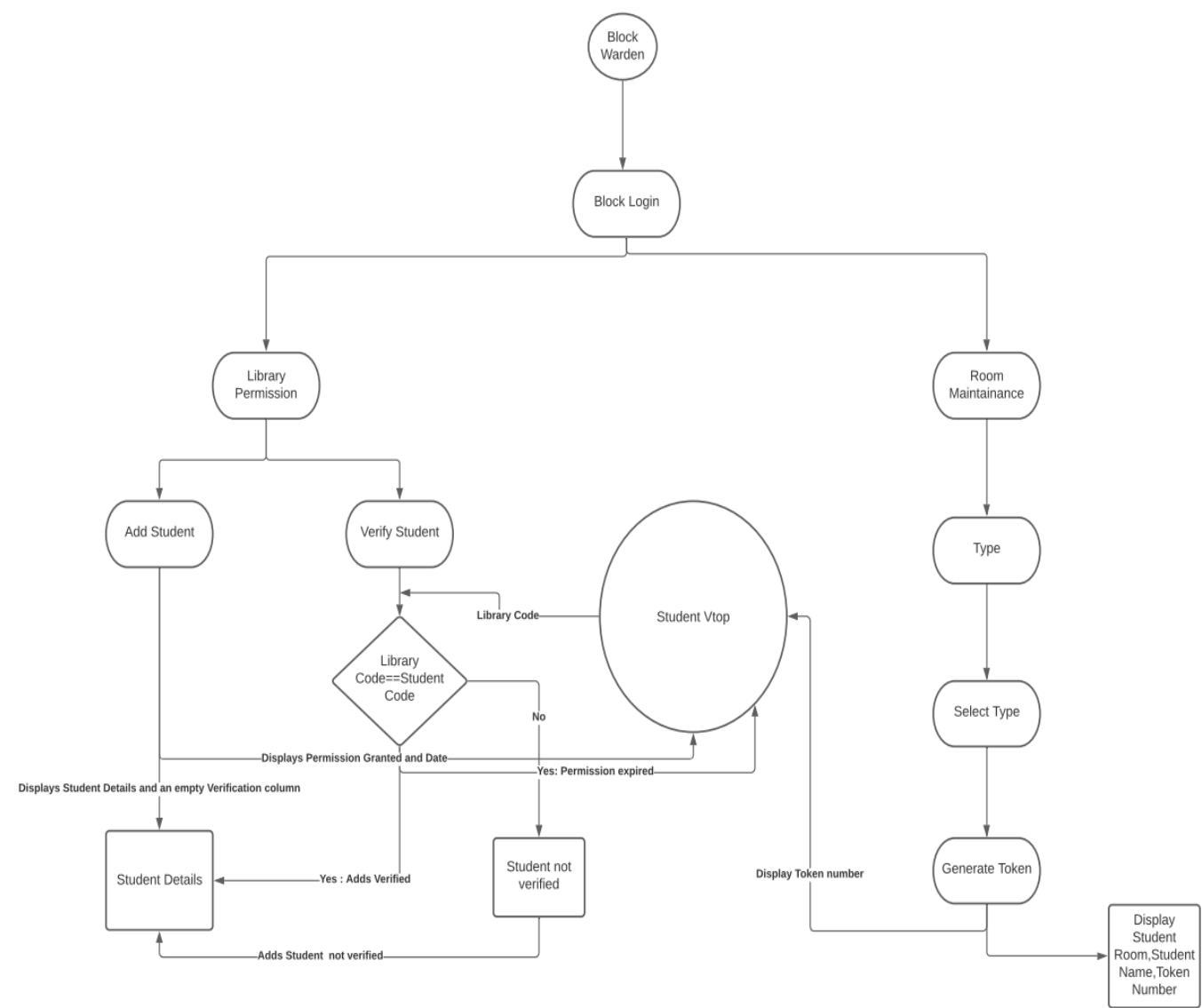
Automating some of the physical activities processed in Vit using Vtop. The activities such as issuing a slip for late night permission in the library, writing details of one's room in a register to get their room cleaned, remembering formats of letters given to different offices in Vit, meeting a professor without any knowledge whether the professor was free or not.

## **Reason for choosing this Topic?**

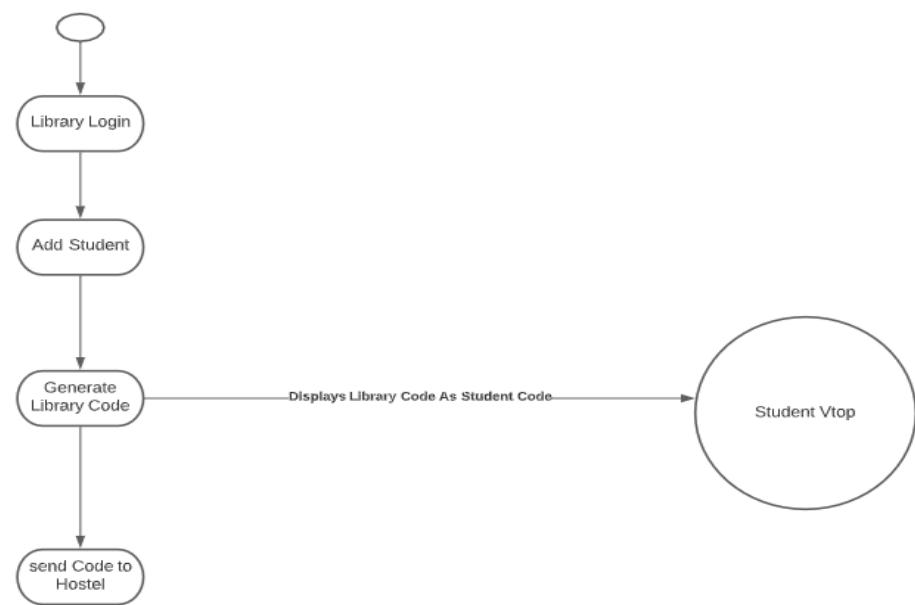
We chose this topic, because we thought that we can automate some of the fields where Vit is still using old school methods like maintaining physical records where there is no necessity of them for a long run. Places where slips are issued for student authentication can be changed using the proposed system. This system saves a lot of paper and also ensures contact less processing which is very crucial in the current world scenario.

Process Flow Diagram:

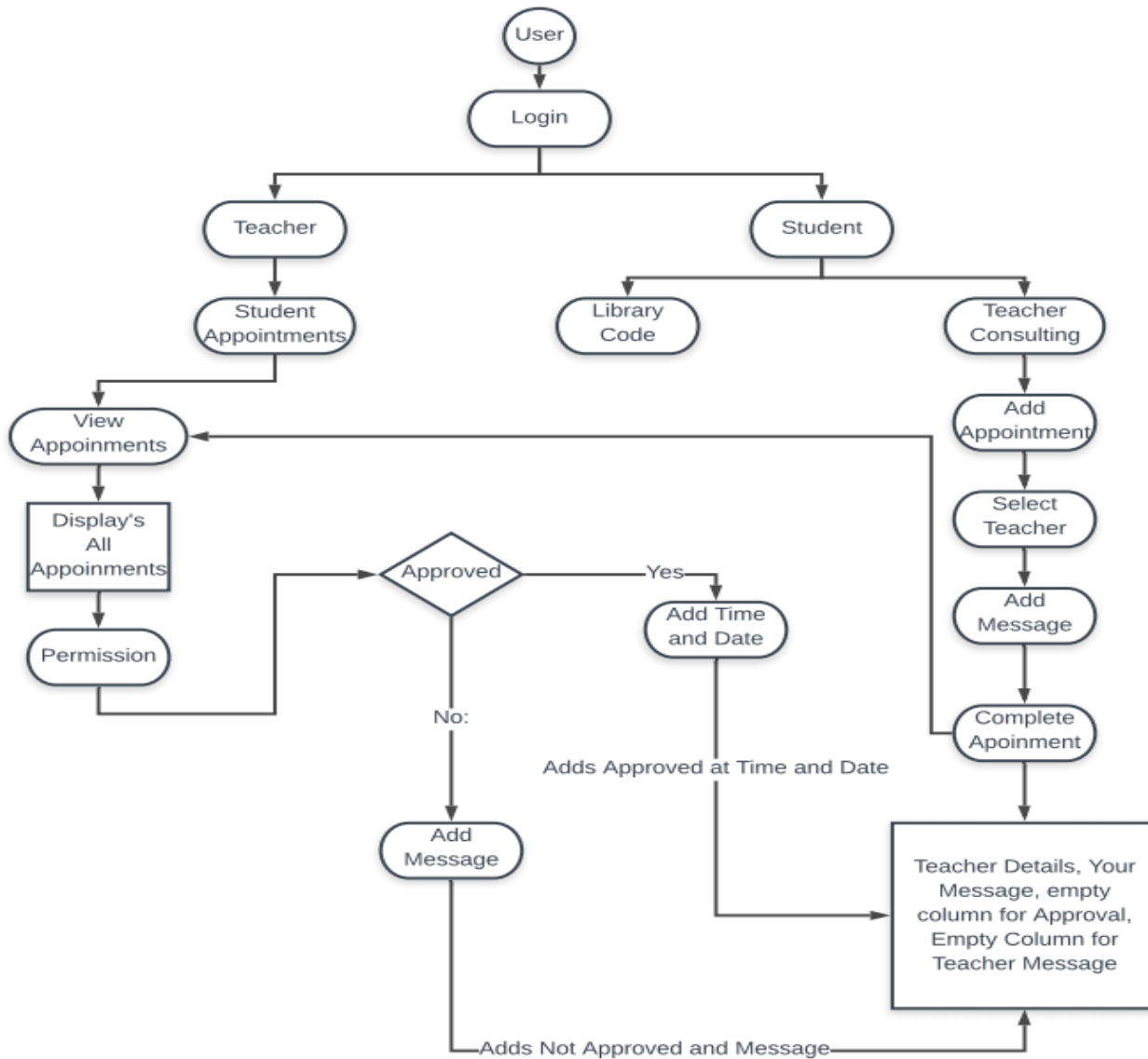
Hostel System:



Library:



## Teacher Appointment:



## Modules:

The main users of these systems Students of Vit, Hostel staff, Library Management

### 1. Hostel System:.

- Block Login Module:** Gives the hostel system the functionality of maintaining different records for each block.
- Add Student Module:** Adds the student information such as registration number, Name, and an empty verification column and an invisible library code column for storing library code of the particular student sent by the library.
- Verify Student Module:** Verifies student who went to library by comparing the code issued by the library to student and library code sent by library to hostel to verify that the student has visited the library and returned after allowed time only.
- Maintenance Module:** Gives functionality to the hostel system of maintaining maintenance records of the hostel block.
- Token Generation Module:** This module helps the hostel System to generate token numbers for students for their maintenance.

### 2. Library System:

- a. **Add Student Module:** Adds the student information registration number, name, code which is generated by Generate code Module. This Module also sends Student code to respective Hostels.
- b. **Generate code Module:** This Module helps the Library System to generate code to the particular student.

### 3. Teacher Appointment:

- a. **Login Module:** Login Module helps to maintain different databases for different users of the teacher appointment system.
- b. **Appointments Module:** This module helps to maintain all the appointments received by the teachers.
- c. **Permission Module:** This Module handles the teacher's input whether the teacher wants to give permission for an appointment or not.
- d. **Teacher Consulting Module:** This Module handles the Student's input from selecting the teacher to sending the appointment request to teacher.
- e. **Appointment submission Module:** This module handles the user input to choose whether to approve the appointment request or not which gives the teacher Consulting Module to send the appointment request to the teacher.

## PrototypeDesign:

The wireframes are organized into a 4x2 grid, representing different user roles and system pages.

### VTOP LOGIN

Student Login

Teacher Login

### Student Login

Reg no

Password

☐ Recaptcha

Login

?Forgot password

### Teacher Login

Emp Id

Password

☐ Recaptcha

Login

?Forgot Password

### Student VTOP Home

VTOP(Vellore) ↑

Reg-no

Library Code

Teacher Appoint

### Teacher Appointment

VTOP(Vellore) ↑

Reg-no

Add Appointment

Select teacher

Sno	Teacher	message	Status	T-message	Time/Date
1	Mohash	Review1	Not Appro	Nonech	-
2	Sukash	Review1	Approved	-	2pm / 23-3-2021

Send Appointment

### Library Code

VTOP(Vellore) ↑

Reg-no

Library Code : 99343784

### Teacher VTop Home

VTOP(Vellore) ↑

Emp-Id

Appointments

### Teacher Appointments Page

VTOP(Vellore) ↑

Emp-Id

view appointments

Sno	Stud-name	Reg-no	Status	Message	Stud-message
1	Satya	123456789	<input checked="" type="checkbox"/>		Review1

## Block Login

Block-id

Password

Login

## Block home Page

VTOP(Vellore) ↑

Block-Id

Library Permission

Room Maintenance

## Library Permission

VTOP(Vellore) ↑

Block-Id

### Library Permission

Stud-name:  Stud-reg-no:  Add

Sno	Stud-name	Stud-Reg-no	Lib-code	Stud-code	Status
1	Sathy	18B10084	44352613		Approved

## Room Maintenance

VTOP(Vellore) ↑

Block-Id

### Room Maintenance

Stud-name:  Stud-Room:

☐ Electrical:

☐ Cleaning:

Add

## Library Login

Emp-Id

password

Login

## Library Home Page

[Library]

Late night Permission

## Late night Permission

Student-Reg-no:

Generate Code