STUDENT'S DAILY ACTIVITY MONITORING SYSTEM

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College Name: St. Thomas' College Of Engineering And Technology

INTRODUCTION

- The objective of this project is to develop a college application.
- The application will act as a college portfolio.
- It is expected to monitor the daily activities of our college.
- It is built using Android Studio in Java.

LITERATURE REVIEW

- In[1] helped to select the essential features of this application.
- In[2, 3] helped to learn Android Studio basics.
- In[4] helped to build the database.

PROJECT PLANNING

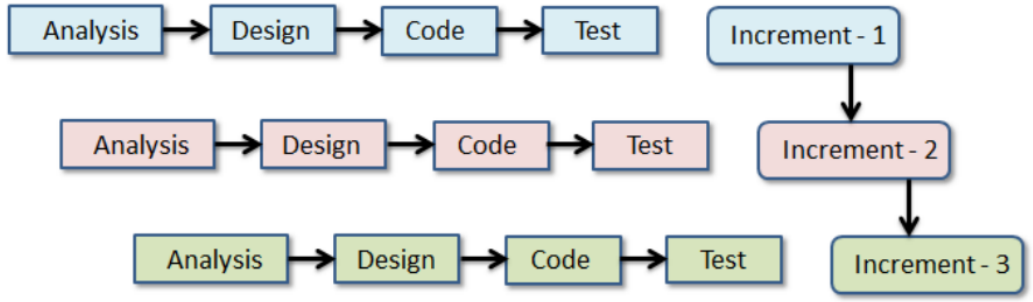
- Designing the interface
- Makes the application visually attractive

Storing the required data in tabular format

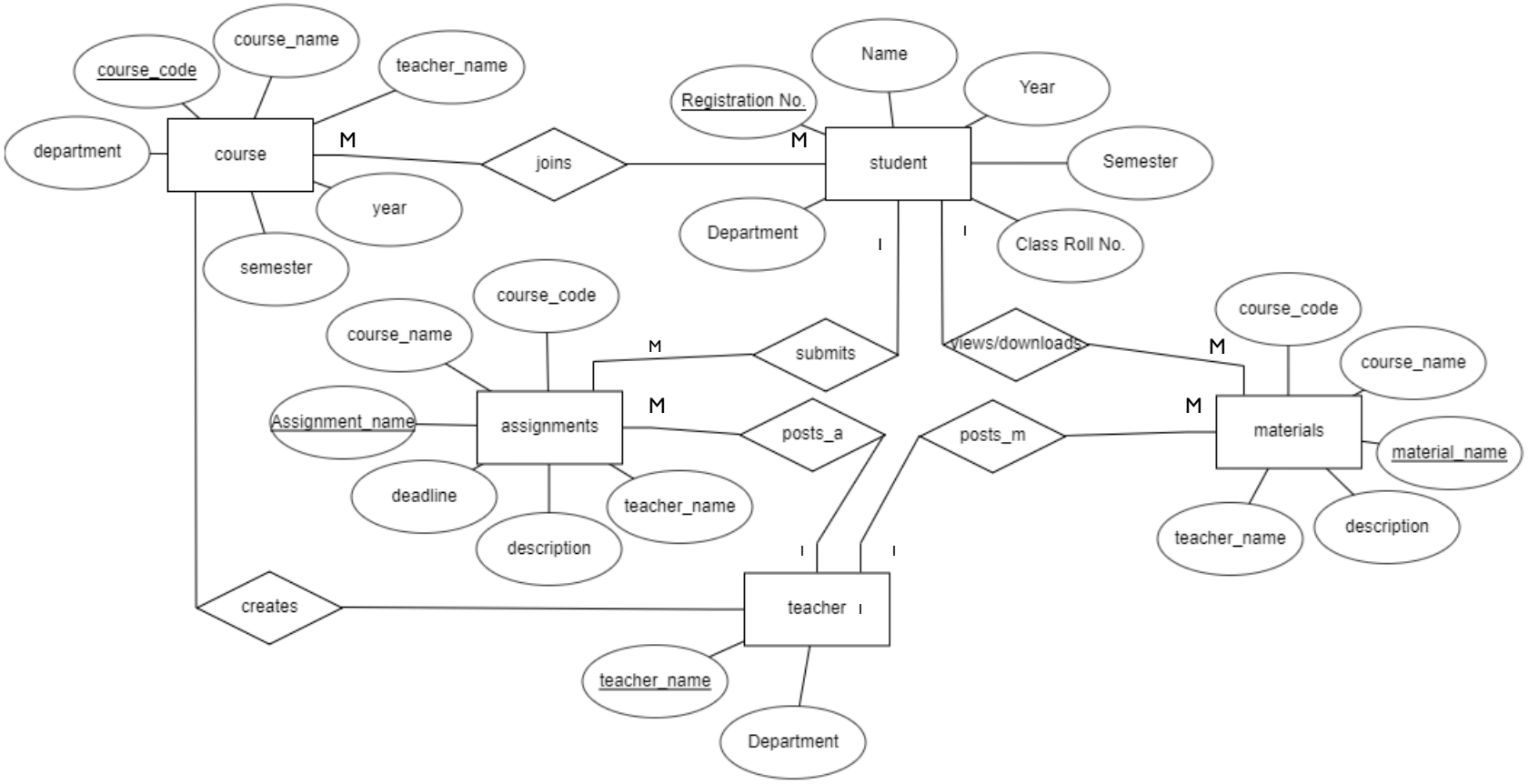
- Implementing the actual working process
- Makes the application interactive

PROJECT DEVELOPMENT MODEL

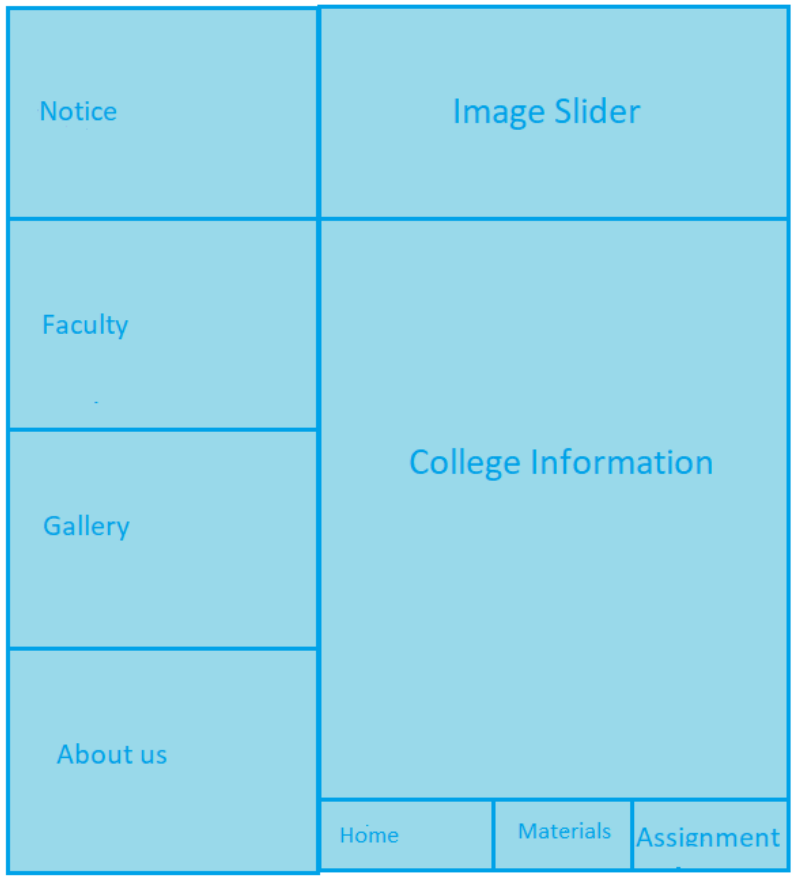
- Incremental Model is used.
- The model is designed, implemented and tested as a series of incremental builds until the product is finished.
- At each stage of the Incremental Model a new build is coded and then integrated into the structure, which is tested as a whole.



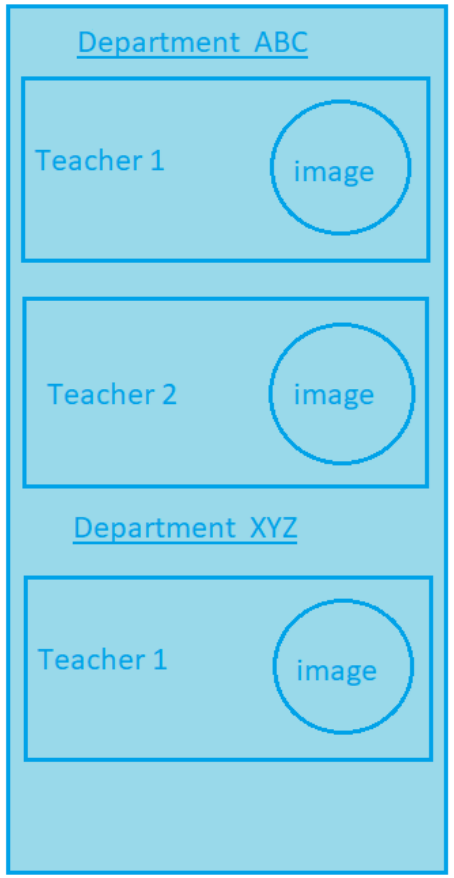
ENTITY-RELATIONSHIP DIAGRAM



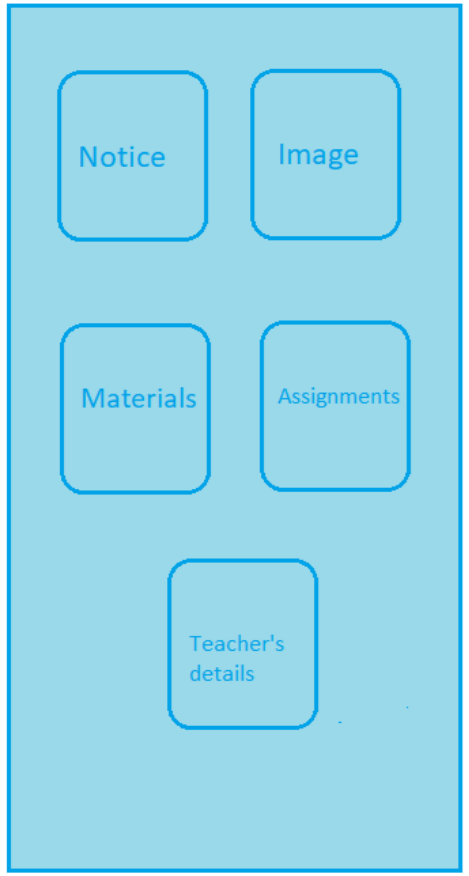
BLUE-PRINTS



User App



Faculty Tab



Admin App

SNAPSHOTS OF THE DATABASE SYSTEM

COURSE_CODE	COURSE_NAME	TEACHER_NAME	ASSIGNMENT_NAME	DESCRIPTION	DEADLINE
PEC-CS701	DBMS	DEBASHIS CHAKRABARTY	Subqueries	Finish the assignment.	09-SEP-22
PEC-EC502	ELECTRONICS	JUIN ACHARYA	Mosfet	Submit on time.	10-SEP-22
PEC-EE301	CIRCUIT THEORY	ANANYA BOSE	Kirchoff	-	10-SEP-22
PEC-IT104	PYTHON	ARINDAM CHAKRABARTY	Dictionary	-	11-SEP-22
PEC-CS803	NUMERICAL METHODS	ANUSUA BAVEJA	Runge-Kutta Method	Solve the sums.	06-SEP-22

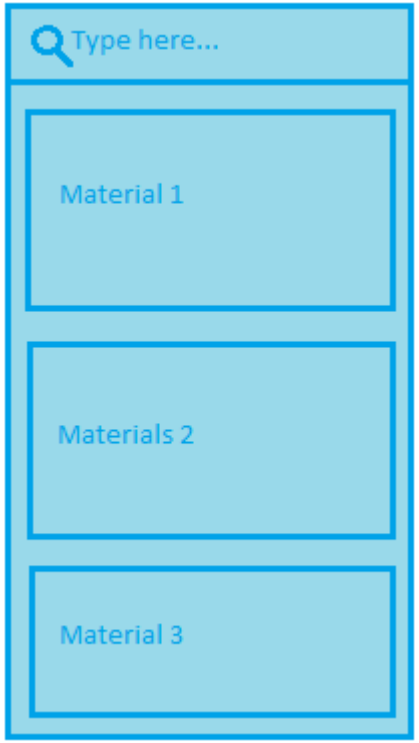
Assignment Table

COURSE_CODE	COURSE_NAME	TEACHER_NAME	MATERIAL_NAME	DESCRIPTION
PEC-CS701	DBMS	DEBASHIS CHAKRABARTY	PL/SQL	Learn the material about PL/SQL
PEC-EC502	ELECTRONICS	JUIN ACHARYA	Digital Electronics	Go through this and ask me for doubts
PEC-EE301	CIRCUIT THEORY	ANANYA BOSE	Familiarization with chips	Here you will learn about different chips.
PEC-IT104	PYTHON	ARINDAM CHAKRABARTY	Loops	Familiarization with for while loop
PEC-CS803	NUMERICAL METHODS	ANUSUA BAVEJA	Newton-Raphson Method	Go through the material.

Materials Table

MY PROPOSED METHODOLOGY

- Implementing a Search Bar.
- It will be implemented using Searchview in Android Studio.
- It will fetch the matched values and display them on the current page.
- The values will be fetched by ID and ifRoom|collapseActionView.
- The method in the backend will be overridden and onCreate() function will the base method.
- The query will be passed through setOnQueryTextListener() method.



CONCLUSION

- Prototype model is sure to be pre-designed before starting a project.
- Pre-implementation research, such as literature review, features selection, learning the tools used in the process of developing the application is essential.
- Database needs to be normalized to remove data redundancy and establish data integrity.

REFERENCES

WEB REFERENCE

- **[1]** https://classroom.google.com/
- **[3]** https://developer.android.com/

BOOK REFERENCE

- **[2]** Neil Smith, "Android Studio 4.0 Development Essentials: Java Edition", Second Edition, Learning Android Studio Hands-on, Page No. 43, Payload Media, 2020
- **[4]** Avi Silberschatz, Henry F. Korth, S. Sudarshan, "Database System Concepts", Database Design and the E-R Diagram, Page No. 259, Sixth Edition, McGraw-Hill, 2016

THANK YOU