EASY REQUEST

DESIGN PROJECT REPORT

Submitted by

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In partial fulfillment for the award of the degree of

Bachelor of Technology

in

Computer Science and Engineering

of

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
KERALA

GOVERNMENT ENGINEERING COLLEGE IDUKKI

PAINAVU 685 603

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CERTIFICATE

This is to certify that the project design document entitled "***EASY REQUEST***" is a bonafied record of the Design Project presented by **AAKARSH B(IDK17CS001), AKHIL RAJAN(IDK17CS010), ATHIRA(IDK17CS027) and SUJITH C S(IDK17CS055)** in partial fulfillment of the requirements for the award of the Degree of **Bachelor of Technology** in **Computer Science and Engineering** of APJ Abdul Kalam Technological University, Kerala.

Idukki
27/11/2019

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DECLARATION

I hereby declare that the design of the project titled " ***EASY REQUEST*** " being submitted in partial fulfillment for the award of B.Tech degree is the original work carried out by me/us. It has not formed the part of any other thesis submitted for award of any degree or diploma, either in this or any other University.

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ACKNOWLEDGEMENT

We express our sincere gratitude to Dr. Madhu K.P our Head of Department and Mr.Dileesh E D our guide, who took atmost care in all our phases of doing this project and helped us with valuable guidance and support in finishing our project successfully.

ABSTRACT

The project on '**Easy Request'** has been developed to override the prevailing manual system. The main objective of the project as mentioned earlier is to manage the request submission procedures within the college in a smooth and easy manner. The project design is built including both administration end and student end, so that both students and staffs can access the requests through single web interface.

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INTRODUCTION

The '**Easy Request'** web application is designed mainly targeting the difficulties faced by the students in submitting request forms to the concerned authority, while applying for various needs like scholarships and NOC. This 'Easy Request' automates the existing system of submitting and forwarding various requests though papers, by the help of fully-fledged web application, which is easy to work with and thus can lead to reliable and fast request submission to the college.

The software design specification is made with the purpose of outlining the software architecture and design of the 'Easy Request' in detail. The document will provide developers an insight in meeting client's needs efficiently and effectively. Moreover the document facilitates communication and understanding of the system by providing several views of the system design.

SIMILAR PRODUCT SURVEY

The present web application portal of Indian government of various states are very similar to this project, including various login for each applicant and officers of various authorities concerned.

PROPOSED SYSTEM

3.1 BASIC DESIGN

The main objective of the project as mentioned earlier is to manage the request submission procedures within the college in a smooth and easy manner. The project design is built including both administration end and student end, so that both students and staffs can access the requests through single web interface.

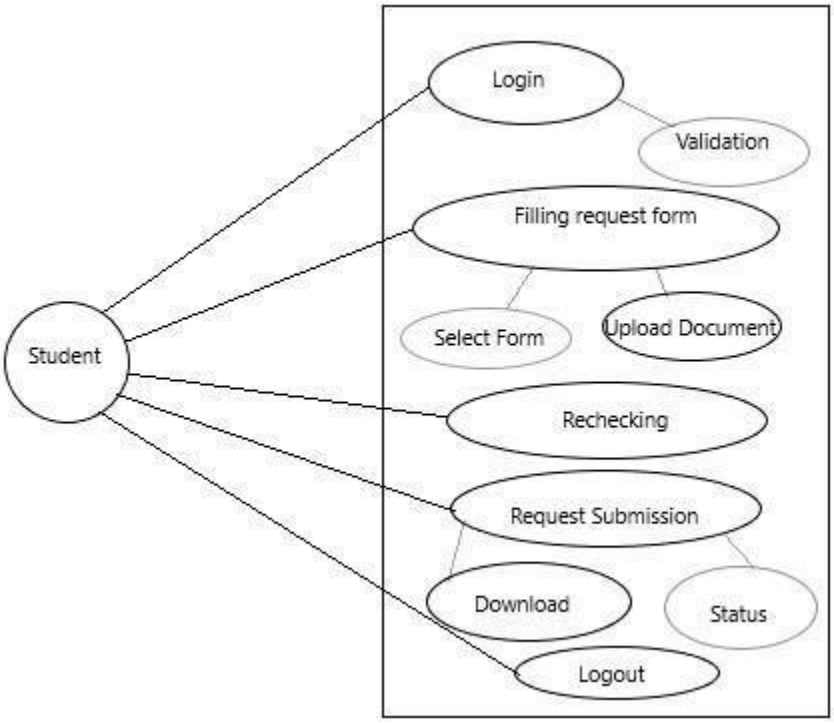
The major functionalities provided by 'Easy Request System' are:

- Provides faster mode of request submission and in return faster response to requests submitted by the students.
- Procedures such as e-signatures can be taken care of, even in the absence of some staffs, in cases when they are in leave etc.
- Separate login credentials for both students and staffs, ensuring more security for the procedures.
- Makes use of digital signature facility.
- Certificates of each student can be easily scanned and preserved securely in digital forms.
- Preservation of request applications are made even much easier than ever before.
- Integrates all the records of both students and staffs, and updations can be done accordingly.

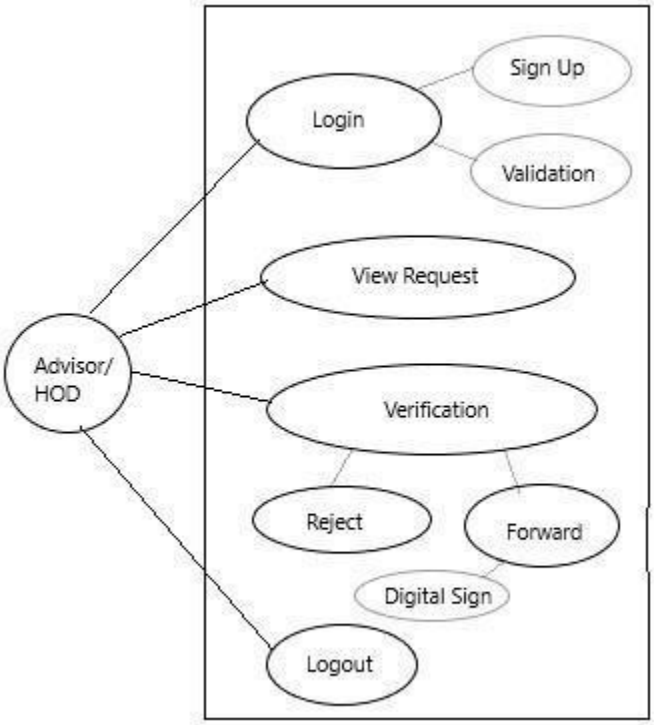
3.2 DETAILED ARCHITECTURE

Use Case Diagrams

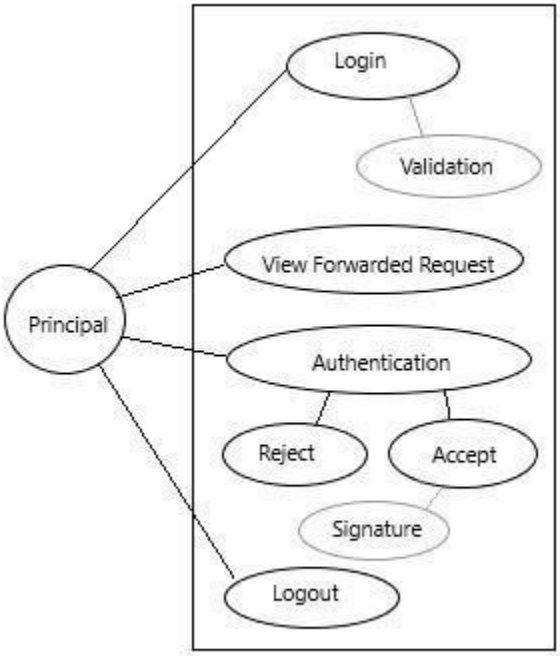
Student



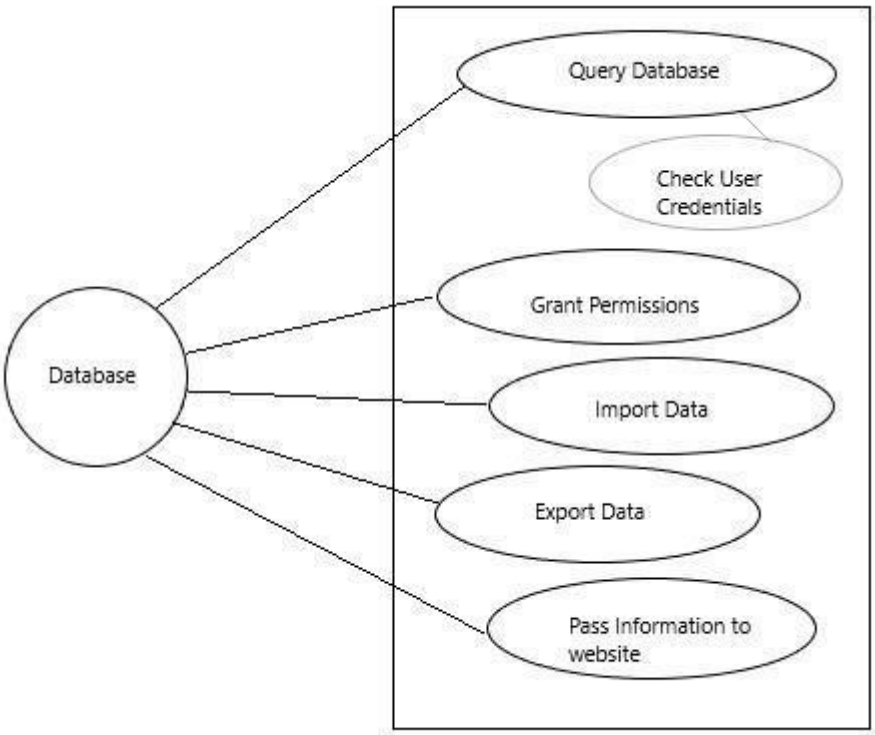
HOD/Advisor



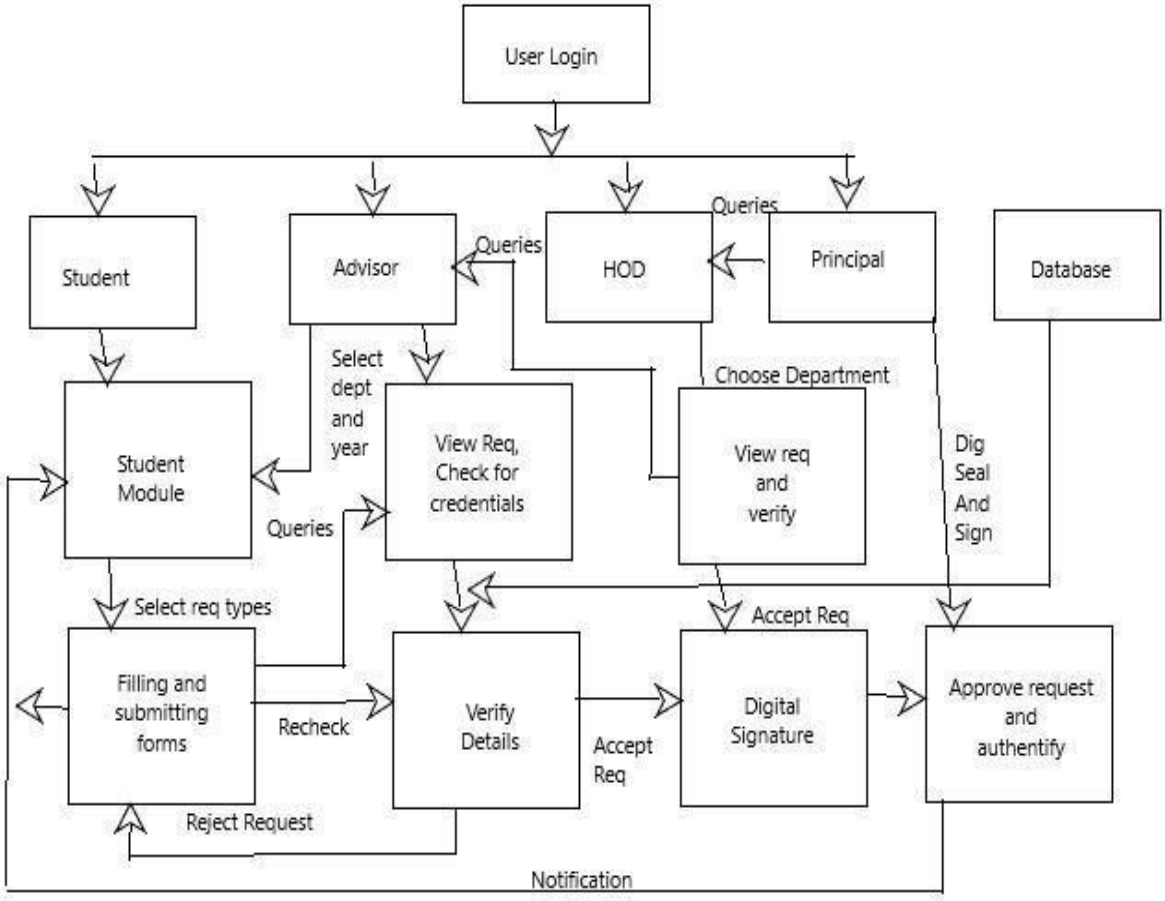
Principal



Database



Architecture Diagram



3.3 MODULE DESCRIPTION

The overall system design consists of following modules:

(a) User Module: In this module we are authenticating the users by providing user name and password. If user name and password is valid then they will be taken to their static screens. When they get matched with each other, system checks their status and transfer the control to respective user-interface.

(b) Database Module: The system uses MySQL as its database and Apache Tomcat Server because of their simplicity and flexibility. This module store every single information about students, faculty and model their data on specified operations. These operation can be storing student attendance, result data or can be authentication credentials.

(c)Advisor Module: The module is designed for staff advisor who can verify the application form forwarded by the student by comparing the details, with the one available in the database. Advisor can further forward the request to the HOD of the respective department, if all the details are valid, or can return back to the student in case of any corrections.

(d) HOD Module: This module is for the HOD to further verify the request for digital signature of the advisor. HOD can further approve the request and forward the same to the Principal desk.

(e)Notification Module: This module is for the advisor/HOD/Principal to get the required notifications about the request forwarded to them.

ALTERNATE DESIGN SCOPES

The web application can be further modified if it include notification facility for each student, advisor, HOD and Principal respectively, so that they can accurately know the exact time at which the requests through ‘Easy Request’ web application is being processed.

ADVANTAGES

5.1 Social Relevance:

- The general effort taken by people will be reduced hugely, as the process of walking to various offices to get things approved will be diminished.
- The further forwarding of the same will be easier as well with the presence of a digital approval from the corresponding faculty.

5.2 Economic Relevance:

- Lesser use of paper. Go Green!
- Saves time.

5.3 Technical Relevance:

This ‘Easy Request’ system can be brought up in every colleges, so that students do not have to walk behind the request all the time.

COMPETENESS AND FUTURE SCOPE

This system may help students save a lot of valuable time. In very short time, the students can apply for their needs such as admissions, scholarships and NOC. It will also reduce the cost of request submissions and the forwarding procedures will go on smoothly. If needed, discussion forums can also be included in this application in order to clarify certain doubts of students, if any.

CONCLUSION

Our project design is only a humble venture to satisfy a need of the students in our college. This package if successful shall prove to be powerful system in making the request submission more handy for the students in our college.