Ajay Vijayakumar
+91 6379382110
aajay0288@gmail.com
www.linkedin.com/in/ajay2721998

Professional summary:

- Overall 2+ years of professional experience as Full Stack/Java Developer in developing and deploying enterprise-wide software applications using Java, J2EE.
- Proficient in design and rapid development of web and J2EE applications using Core java, JSP, JSF, CSS, Servlets, EJB, JavaScript, Spring, JDBC, JNDI, JMS, SWING, HTML/DHTML, XML and Struts framework.
- Good exposure to all phases of SDLC process, including system use case, functional & technical specification documentation based on business requirements.
- Java Micro services Developer with experience in Application Assessment and maintenance of Microservices architecture applications using Jsp,Servlet,JDBC,Hibernate,Spring MVC,Spring Boot and Restful Web Services.
- Used Agile methodologies during the complete project life cycle.
- Expertise in distributed, secure and scalable application development using J2EE technologies like Servlets, JSP, Struts, Spring Core, Spring MVC, Web Service Development (Using SOAP and REST) and hibernate.
- Expertise in implementing MVC design pattern using Struts and spring framework.
- Extensive programming experience in developing web-based applications using Java, J2EE, JSP, Servlets, EJB, Struts, spring, Hibernate, JDBC, JavaScript, HTML,CSS,Bootstrap,Java Script Libraries,AngularJS,Angular, Web Services etc.
- Good knowledge with web-based UI development using jQuery UI, jQuery, CSS3, HTML, HTML5, XHTML and JavaScript.
- Developed the front-end using HTML5,CSS3, JavaScript, Bootstarp, jQuery, AJAX ,Angular and Ember
- Experience in the design and development of SOAP and RESTful web services and integrating with the existing applications.
- Developed AJAX functionalities using frameworks like JSON, POJO, Ext Js and JQuery**.**
- Expertise in Spring framework, extensively used Spring DI, Spring AOP, Spring JDBC templates,Spring Forms and Spring MVC.
- Good experience with MYSQL,PostgreSQL and MSSQL Database.
- Experience in Creating Associations and Mapping using Hibernate ORM.
- Experience in writing DAO using Hibernate mapping.
- Expertise in Creating Hibernate configuration file, Hibernate Mapping files and defined persistence classes to persist the data into Database.
- Experienced in document management in the NoSQL database using ElasticSearch.
- Experience in database design and development using PL/SQL, Stored Procedures, Functions, Triggers, prepared statements and writing native queries.
- Experience in build scripts for enterprise applications using ANT, Maven and Gradle.
- Excellent understanding of java concepts like OOPS, Multithreading, String handling, generics.
- Excellent understanding of Java Interface which will connect the OnPrem and Cloud Application.
- Followed Single Page Application (SPA) Pattern and used Angular JS MVC to build a cross-browser complaint application.
- Experienced in Client-side validations using Ajax in Node.js, Angular.js, Angular 7.0 and Dashboards reports using Ember.JS.
- Implemented Client-side Discovery and Server-side Discovery patterns to route requests for a client to an available service instance in a microservices architecture.
- Extensive experience in developing GUIs using Struts, SPRING MVC, SPRING web flow Frameworks.
- Experience with version control tools like ClearCase, Subversion, CVS, Tortoise and GIT.
- Experience in handling different Web Servers like Tomcat, MickeyLite and SAAS provided by the ZOHO Corporation Private Limited.

- Implemented log4j for debugging. Utilized the same for logging each sensible data access from the application.
- Well versed with Core Java concepts like Collections, Multithreading, Serialization, Java Beans and Network programming.
- Well Experience in Creating Flow of the Project by Delivering Class Diagrams, Activity Diagrams as well as Flow Diagram to make the team understand the GOAL to be achieved.
- Extensive knowledge and understanding of Hibernate ORM tool. Reverse engineered numerous project artifacts to speed up development efforts.
- Experience developing Service Oriented Architecture SOA.
- Experience working with Databases like MySQL, Oracle,PostgreSQL.
- Expertise at programming in different IDEs like Eclipse, STS, IntelliJ,Sublime,Visual Studio Code and Net Beans.
- Expertise in debugging the Live Product with InjelliJ Integration and alter the code according to the usecase.
- Developed common XML schema's (XSD) as client contracts used to publish Top-Downapproach-based Web Service.
- Good in communicating with clients, customers, managers and other teams in the enterprise at all levels.
- Ability to meet new project ideas, deadlines, handle multiple tasks.
- Good knowledge of in Unified Modeling Tools (UML) concepts and extensively worked in designing Use Cases, Class diagrams, Sequence and Object Diagrams
- Excellent analytical, problem solving and interpersonal skills. Ability to learn new concepts fast. Consistent team player with excellent communication skills.
- Excellent Experience in creating CRUD Application with Association Knowledge and Cascading Technique.
- Good Experience in Delegating Module based on Licence and Allowed Users.
- Excellent Experience in Creating Security Models Such as Password-Based, Federated SSO, OAuth, OAuth2, SAML, IDP-SSO, SDP-SSO etc.
- Experience in securing URLs in Tomcat Filters which routes every request and process the Error and Success Pages.
- Good Experience in Delegating the URLs based on User Roles for Authentication and Authorization.
- Excellent Experience in Designing RESTAPI and Access Methods to Achieve Good and Professional Flow model to build projects seamlessly.
- Ability to Design Application based on MVC and MVT Design Pattern.
- Experience in Routing and Mapping Servlet and JSP and Compile JSP to Java and Access from Tomcat Server.
- Wonderful Experience in Modelling Questions in Hackerrank and Hackerearth.
- Excellent working experience with different operating systems like Windows, UNIX, LINUX.
- Excellent Editing Skills in Photos and Videos using Adobe CS6, Adobe CC, Adobe Premiere PRO, Adobe After Effect ,Filmora Pro etc.
- Good Experience in Creating Project Prototype using Draw.io, Adode XD etc.

Education:
- Bachelor's in Computer Science and Engineering with CGPA of 8.6 percentile - 2020

Certifications:
- Certified in JAVA of UDEMY (https://www.udemy.com/certificate/UC-SB524TRY/)
- Certified in Database Design and MySQL of UDEMY (https://www.udemy.com/certificate/UC-EVFQALA5/)
- Certified in GIT Version Control of UDEMY (https://www.udemy.com/certificate/UC-CITZL6LD/)
- Certified in HTML5 and CSS3 of UDEMY (https://www.udemy.com/certificate/UC-0RQROZIY/)
- Certified in JQuery with Javascript and AJAX of UDEMY (https://www.udemy.com/certificate/UC-N5AH75LG/)
- Certified in RESTFul Service Model in Spring of UDEMY (https://www.udemy.com/certificate/UC-2QMB6DDJ/)
- Certified in Adobe Photoshop CS6 of UDEMY (https://www.udemy.com/certificate/UC-6A3YGB96/)
- Certified in Bootstrap 4 of UDEMY (https://www.udemy.com/certificate/UC-7DWPFOOM/)
- Certified in Devops With Jenkins of UDEMY (https://www.udemy.com/certificate/UC-P4KR3KBJ/)

- Certified in Spring Core Framework of UDEMY (https://www.udemy.com/certificate/UC-Z53PU7B6/)
- Certified in Frond-End Technology HTML, CSS, Bootstrap and Jquery of UDEMY (https://www.udemy.com/certificate/UC-JJXQR3K5/)
- Certified in Java Database Connectivity API (JDBC) of UDEMY (https://www.udemy.com/certificate/UC-0JFAFGJ8/)
- Certified in Client-Side Scripting JavaScript of UDEMY (https://www.udemy.com/certificate/UC-PE0VMPJU/)
- Certified in JSP and Servlet of UDEMY (https://www.udemy.com/certificate/UC-JGZ03I8O/)
- Certified in Game Asset Graphic Designing of UDEMY (https://www.udemy.com/certificate/UC-BIO5J5UC/)
- Certified in Advance Python Concept of UDEMY (https://www.udemy.com/certificate/UC-IJY47IMY/)
- Certified in Python Programming of UDEMY (https://www.udemy.com/certificate/UC-4817JM03/)
- Certified in Python Web MVT Framework DJANGO of UDEMY (https://www.udemy.com/certificate/UC-P8XBRX7O/)
- Certified in Data Structures and Algorithm of UDEMY (https://www.udemy.com/certificate/UC-G0AY03ZC/)

TECHNICAL SKILLS:

Programming Languages	Java,C, C++, PL/SQL
MS Office Tools	Outlook, Word, Excel, PowerPoint, MS Access
Java/J2EE Technologies	J2EE, Servlets, JDBC, JSP,JSTL, JPA, Spring, Spring Boot Hibernate, Junit, Apache Struts, Java Beans, JMS, EJB, Java Security, JNI, JSF, REST, JAX-WS
Web Technologies	HTML, CSS, JavaScript, Bootstrap, Angular, JQuery, AJAX, JSON, EmberJS, TypeScript
Frameworks	Hibernate ORM, JPA, SpringMVC, SpringBoot, Struts, Junit, JNI.
Web Services	REST, SOAP, Micro Services
Web Hosting Technology	Amazon AWS, Heroku, Git Pages
Web/Application Servers	Apache Tomcat, MickeyLite ZOHO, SAAS Zoho
Database/Database Tools	MySQL, Oracle, PostgreSQL, SQL Server.
IDE	Eclipse, IntelliJ, Spring Tool Suite(STS), Net Beans, Dreamweaver,Visual Studio Code, Sublime Text
Build Tools	Ant, Maven.
Project Modelling Technology	E-R Modelling, GRASP Patterns
Configuration Management Tools	GIT, SVN, CVS.
OS & Environment	Windows 10/8/7/Vista/XP/2000/NT, UNIX, Linux
Others	Atom , Notepad , Notepad++ , PyCharm , DBeaver, Draw.io,Turbo C++, Code blocks, Python IDLE, Dev C++, Virtual Box, Hyper V, Flask, Django, Microservice Design

Professional Experience

Zoho Corporation Private Limited **Aug 2019 - Current**
Project-1 : Authentication System
Project-2 : MickeyLite
Project-3 : M365 Manager Plus
Project-4 : Meonefw
Project-5 : IDMF
Project-6 : Identity Management (IDMP)

Project-7 : Identity Authentication and Authorization Service(IDAAS)
Project-8 : Single Grid Migration

Role: Full Stack Web Developer
Designation: Member Technical Staff

Authentication System is a full fledged web application which comprises of two different servers in which one server act as a consumer and other server act as a producer. The Main goal of this project is to provide OAuth functionality which involves creation of authentication token and Authorization code for accessing the resource. Before Accessing the service the customer has to obtain authentication token and using the token authorization code has to be obtained and access the home page of the product.

MickeyLite is a framework product which provides an easy-to-use framework for developing web based applications using relational databases. To be technical and specific, using Mickey, you can write web applications without worrying much about the troubles involved in the DB access. Mickey bundles TOMCAT along with it.   TOMCAT takes care of the web-access and Mickey takes care of the DB access. Mickey is the core server platform (framework) over which the applications will be developed upon. Persistence, Authentication, Authorization and Logging are some of the most commonly used features available in any software application development process. The code for these features are more often repeated across all the products leading to wastage of time, resources and lack of uniformity in implementation, to overcome this mickeylite is used.

M365 Manager Plus is an extensive Microsoft 365 tool used for reporting, managing, monitoring, auditing, and creating alerts for critical activities. With its user-friendly interface, you can easily manage Exchange Online, Azure Active Directory, Skype for Business, OneDrive for Business, Microsoft Teams, and other Microsoft 365 services all from one place.M365 Manager Plus provides exhaustive preconfigured reports on Microsoft 365 and helps you perform complex tasks including bulk user management, bulk mailbox management, secure delegation, and more. Monitor Microsoft 365 services around the clock, and receive instant email notifications about service outages. M365 Manager Plus eases compliance management with built-in compliance reports and offers advanced auditing and alerting features to keep your Microsoft 365 setup secure.

Meonefw is the integration framework provided by the Manageengine. These framework provides common modules which can be integrated with various product to give the common functionality. Many modules such as directory sync, notification template, install agent, uninstall agent, Sending Notification, Licence Expiry Notification, Roboupdate, Mail Server setting etc can be provided by the meonefw. This framework can be used in both on-premise as well as cloud products. The meonefw also provides delegation module which can provide authorization based on roles to provide the specific modules. The Reverse proxy functionality is also provided by the meonefw framework in which the application can enable reverse proxy support for the actual url.

IDMF is the integration framework provided by the WSM which provides common functionality such as api, audit, authentication, conditional access, dashboard, directory, application panel, mail and user panel. This project is well defined for the integration of directory module in which the directory integration and sync operations are done. During sync the user details of the directory are fetch and stored in the respective database. IDMF also provides 100+ application panels in which each application is SSO configurable and can be accessed from the user panel.

IDMP is referred as Identity Management which is a product under ManageEngine provided by Zoho Corporation Private Limited. It provides end users one-click access to the applications they need and allows IT admins to manage and monitor application access from one central console. IDMP Provide users with secure, one-click access to enterprise applications. Users only have to log in once to access all their applications.This product supports SAML for

more than 100+ application in which the third party application can be accessed using IDMP without login. It also supports directory integration such as Azure, Gsuite etc in which the user can be synced and provisioned using IDMP.

Identity Authentication and Authorization Service(IDAAS) is a microservice which act as a authentication and authorization layer for multiple products. This product will facilitate MFA for all agents, Zero Trust Authentication and Federated Services. This service will perform authorization of AD objects such as computer , user etc. The Directory Sync and Management are performed using IDAAS. Every Application has to integrate the directory details with the IDAAS, Directory sync occurs at IDAAS Layer and every application has to request data from the IDAAS. IDAAS will also act as a delegation layer which provides delegation among super admin, admin and user.

Single Grid Migration is a migration project in which the Identity Manager Plus Product is completely migrated to Log360Cloud Grid.The Challenges in this projects includes code base migration, micro framework updation and designing of database params and query. The Major Challenge faced is to provide a single authentication portal where all identity are verified in a single space. This Projects includes a full analysis of Azure Tenant model to achieve multiple instances for a single product . This projects also faced the analysis of the Monolithic, SOA and Microservice Architecture to attain a well developed code base according to monorepo as well as polyrepo.

Responsibilities :
- Involved in all the phases of SDLC including Requirements Collection, Design & Analysis of the Customer Specifications and Development of the Application.
- Involved in overall system's support and maintenance services such as defect fixing, future enhancements, testing and documentation.
- Co-ordinated with the offshore team in various phases of application.
- Successfully delivered design and code in agile methodology by actively involving in scrum meetings that allow clusters of teams to discuss their work, focusing especially on areas of overlap and integration.
- Extensive hands-on development experience with Java 8 (to include multi-threading and performance tuning)
- Implemented back-end logic using core java using Java concurrency utilities and taken care of complete Java multithreading part in back-end components.
- Involved in creation of flow diagrams using draw.io and active scrum meeting which gives the productivity among teams to satisfy the customer needs.
- Interaction with other team to develop API in such way to fulfil all consumer need with respect to data, format etc.
- Designed use case diagrams, class diagrams, and sequence diagrams as a part of Design Phase using Dbeaver and Draw.io. Used Java Collections APIs & Multi-threading in handling batch service requests.
- Rest API is used for the communication among different Micro services.
- Involved in the development of Java Web Services to get customer data from various application systems.
- Developed Web Services using XML messages that use SOAP. Developed Web Services for Payment Transaction and Payment Release.
- Used Java Mailing or Messaging Service (JMS) API's for mailing detailed notifications depending upon the success and failure once the backend process is complete and also for mailing administrator of any system related problems.
- Implemented design patterns like Data Access Objects and Value Objects/Data Transfer Objects (DTO) to transfer data between different tiers of the application to decrease the network traffic when invoking remote objects
- Built prototypes of complex modules and analyzed the performance.
- Implemented Struts framework in the presentation tier for all the essential control flow, business level validations and for communicating with the business layer.
- Developed various helper classes needed following Core Java multithreaded programming and Collection classes.

- Assist with troubleshooting and issue resolution relating to current applications, providing assistance to the development Consult with users, management, and technical personnel to clarify business issues, identify problems and suggest changes/solutions
- Provide ongoing internal reporting of performance measures and service levels
- Champion and promote service improvements on an ongoing basis to continually improve the quality of services delivered and customer satisfaction.
- Manage and coordinate hot fix and maintenance releases
- Managed GitHub repositories and permissions, including branching and tagging
- Interacted with lead and manager to gather the requirements for business and performance testing.
- Develop Java applications to control Infrastructure and built environments in the cloud autonomously.
- Developed presentation layer including UI components, validations using HTML5, applying styles using CSS, used jQuery as well as ember adapter methods to make Ajax calls, implemented the front end using Ember and Created REST based web services using JSP and Servlet library.
- Implemented Authentication Services such as OAuth, OAuth2 ,SAML using jsp and servlet using different services running in tomcat.
- Experienced Session Handling and Cookies across the tomcat instance for loading the data for browser session and cookie to work with different usecases.
- Learned Different Aspects of networking such as domain name service, domain controller etc for step into the products of zoho.
- Experienced well developed knowledge in Idp initiated SSO, sp initiated SSO and federated authentication which is provided by the IDMP in which the third party application can be accessed from the user portal.
- Active involvement in creation of refresh token and generate authorization code to provide a authentication and authorization layer for the Authentication system.
- Well Experienced with the core functionality of Persistence, Authentication, Authorization and Logging modules which is provided by the mickeylite framework to overcome wastage of time, resources and lack of uniformity in implementation.
- Well enriched experience with the security provided by the mickey lite, Security involves User Management, Authentication, Authorization and Audit. Any software application needs to create and manage users, control access to these users and to configure who can use or administer it. The security module represents one of the most necessary modules of any application because an application's whole premise centers on its value to users.
- Involved in setting up the mickeylite framework and build cred related application using persistence layer provided by the mickey framework.
- Explored various operations of persistence layer such as population of data, DML and DDL query provided by the mickeylite framework tested each and every usecases.
- Experienced Authentication and Authorization functionality provided by the mickeylite for implementing greater level of security for future applications.
- Actively worked out the Update Manager Provided by the MickeyLite Framework which helps in updating the live product to latest version and thus so follows the Agile Methodology.
- Involved in the scheduling of task which is dome by the task-engine module provided by the mickeylite framework and so using this task-engine module we can automate the code at implementation level. The Task-engine provide a refresh controller which reset schedule according to periodic or calendar task.
- Experienced authorization of tenant of the Microsoft account and syncing of users and domain using the m365 manager plus application.
- Added functionality of Migrating the data to mssql database of the m365 manager plus application.
- Worked with syncing of various reports of Microsoft and provided segregated reports according to the usecases preferred by the customer.
- Developed Report Link and Report data functionality in which the report are send as link or mail body data if the size of the message exceeds the limit of the mail server.

- Explored Scheduling of various reports and notify with various export option to the configured mail server for greater data functionality used by the customer.
- Active Experience of Management Tab provided by the m365 manager plus application in which the data can be managed from the m365 portal without login into the Microsoft Portal.
- Involved in generating various compliance report provided by the Microsoft using the power-shell script-let and populate the data according to the usecases preferred by the customer.
- Well involved development in creation of notification template for report data and report link usecases and uses well defined component support of the ember to provide a seamless flow of the product.
- Explored Collection of Audit Record from the Microsoft and storing of logs data in the elastic search which is a functionality provided by the m365 manager plus.
- Experienced Delegation of Modules for the Users as well as the technician for licensing and active display of tabs provided by the meonefw framework.
- Worked with scheduled automation and automation policy provided by the m365 manager plus which is used to execute functionality operation one after other.
- Involved experience in creating domain and worked out adding custom domain and sync the user to zoho accounts for giving provision for the respective application.
- Implemented security proxy provided by the security framework to create cookies between the request in which communication trust is created between products.
- Analyzed and Tested complete tenant model of the Azure Portal with Global Subscription as well as Tenant Specific Subscription to gather a better understanding of Licenses between services.
- Attained a well developed knowledge of Microservicce Architecture with the SOA and Monolithic Architecture which will boost productivity among teams to build and deploy application faster and efficiently.

Environment: J2EE, JSP, Servlet, Java, HTTP, REST, XML, JSON, SQL, HTML5, CSS, Java Script, EmberJS, Tomcat, Eclipse, IntelliJ, log4j, Git, Bootstrap, AJAX, JQuery, JSON, Struts.

Karpagam College of Engineering   **Feb 2019 - Apr 2019**
Project-Name : ELIQUITE
Role: Full Stack Web Developer
Designation: Student

Eliquite is a fully fleged full stack ERP web application which is a global authentication Application which provides the many modules such as attendance, feedback etc to satisfy the college ERP modules. It is used to manage the interaction between the staff and the student to provide a greater flexibility such as maintaining students records, attendance etc. This Project also implements delegating roles between superuser, admin and user. Eliquite also covers various ERP Module related operation in which every college can coagulate to attain various task. Eliquite also provides subject and reports related task such as sharing files between the students classes and construct different reports based on divisions , marks etc.

Reference : https://github.com/AjayKce/Eliquite

Responsibilities :
- Involved in all the phases of SDLC including Requirements Collection, Design & Analysis of the Customer Specifications and Development of the Application.
- Designed and developed the web application with MVC Architecture using Spring Framework.
- Developed handy version applications using Bootstrap Framework, HTML5 and CSS3.
- Involved in overall system's support and maintenance services such as defect fixing, future enhancements, testing and documentation.

- Co-ordinated with the Placement and Department team in various phases of application to bring the usecases and functional modules.
- Developed Controller for request, response paradigm by Spring Controllers using Spring-MVC. Used JSON as response type in REST services.
- Actively participated in requirements gathering, analysis, design, and testing phases.
- Used Hibernate framework for data persistence, involved in creating the Hibernate POJO Objects and mapped using Hibernate Annotations for data persistence.
- Designed use case diagrams, class diagrams, and sequence diagrams as a part of Design Phase using Rational Rose. Used Java Collections APIs & Multi-threading in handling batch service requests.
- Implement the web application using Spring Boot and Hibernate with HTML5, CSS3, JavaScript, jQuery, Bootstrap and other web technologies.
- Developed the entire application implementing MVC Architecture integrating JSF with Hibernate and spring frameworks.
- Created interface to use third party services using RESTFUL web service call by sending a JSON object and receiving the response by conversion through Jackson.
- Performed the design review, code review and test case review.
- Updated the data from PostgreSQL database automatically by the time detective function
- Spring Controllers were used with Thymeleaf as well as jsp to route the control to desired Java services.
- Implemented REST Micro services using spring boot. Generated Metrics with method level granularity and Persistence using Spring AOP and Spring Actuator.
- Developed various helper classes needed following Core Java multithreaded programming and Collection classes.
- Created RESTful API to enable access to database and data retrieval from SQL.
- Configured server setting properties and Database drivers. Built REST API end-points for various concepts.
- Implemented design patterns like DAO, singleton, factory to achieve design principles.
- Worked on Oracle DB and created Oracle DB PL/SQL Tables, Views, Stored Procedures, Triggers and Functions.
- Development and creation of Web Services using REST with JSON response type.
- Designed and Developed Presentation Tier using Struts Taglibs, Tiles, JSF and JSP pages integrating AJAX, Custom Tags, JSTL, HTML, DHTML and JavaScript. Used Apache Axis to generate WSDL and web Service clients.
- Tested with Postman with various request methods and followed a best request method pattern for altering the data for the criteria for the Application.
- Implemented different levels of Associations using Hibernate which provides ORM Support and Logically update the database using HQL query instead of SQL query and thus the product can be secured from SQL injection.
- Involved in using continuous integration tool (CI/CD) Jenkins. Created builds using Maven and pulled the project code from GitHub repositories.
- Implemented common functionality of the data for provide the CRED operations on the student data such as add, read, edit and delete student information.
- Involved in Modelling Database using DBeaver and Reverse Engineered for obtaining a greater flow to achieve the usecases.
- Implemented Singleton, MVC, Data Transfer Objects and Data Access Objects design patterns.
- Implemented in creating superusers who develops and update the Application whenever a new modules is introduced.For the first time the Application will prompt ,username and password to authenticate the Application
- Involved in developing various login support in a single navtab groups which provides the login UI for superusers, collage admin, students etc.
- Provided UI for Requisition for using the product,The college admin has to request permission from the superuser inorder to use the application. After Submitting the Request the superuser has to verify the college and create a login credentials for the college and the username and the password has to be send to the respective college mail

- Implemented great delegation among the roles played in the application which provides functionality navigation for only the allowed roles.
- Developed superuser Module which can only accessed by superuser. The module for superuser is to maintain the product such as confirming or rejecting the college request, Create College, Extending superuser and accessing all the data through console.
- Implemented College Module which provide many functionality such as adding Admin (here Admin refers to HOD), Managing Admin, Creating Feedback , Scheduling periods etc.. In our Module the College create an authentication for each department, Each department should has only one admin(HOD)
- Involved in creating and managing admin using the college Module panel in which only one admin is allocated for each department.
- Consistent involvement in creating Admin(HOD) module which is a powerful module which provides many functionality such as creating batch, classroom, staffs , Allocation etc
- Involved Systematic flow in creating a batch by the HOD (Admin) which defines the yearly set of students. Each student has a roll number, each student belongs to respective department, and Each students belongs to a batch.
- Constructive creation of Division under same department for multiple batches by the admin(HOD) for creating Classrooms based on candidate as many students belongs to single department, and a single department has many batches , Each batch students are belongs to different sections.
- Involved in separation of department based on semester wise and based on different batches.
- Provided functionality of creating staff and give creadential for the created staff by the admin(HOD). These staffs can handle subjects for many classrooms and may be a tutor for classrooms. The staffs who are the tutor for respective classrooms can only have permission to create students for respective class.
- Implemented creating different levels of subject which can be classified by using the subject code and the credits provided.Creating subject by giving the course code and subject title, is an important process.The Admin(HOD) who create the subject will only belong to the respective department i.e the subject which is created by CSE HOD will only available to CSE department. Each subject will carry course code, credits and belong to separate group.
- Provide extra functionality along with the creation of subject in which exams such as practical, mid-term, semester can be added for the particular subject. Each Exam can also has full mark and pass mark section to provide a consolidated report for a student.
- Successfully provided allocation of tutor for specific classrooms by the admin following best criteria i.e same staff should not be a tutor for both A and B section for same batch in same department.
- Consolidated Allocation of subjects for each department for each semester by the admin(HOD) which will assigned to each and every student in the particular department. Staff will be assigned for each allocated subjects.
- Provided Staff Module who can add student, view details and attendance for every students of the respective department if the staff is promoted as tutor for a department.
- The staff module can view the classrooms assigned, Subject handled and Attendance for the specific subject.
- The staff can create bulk student by uploading excel with header and row values and so by reducing the time for creation of students.
- Each Staff can share resource for the specif subjects and so the students who enrolled the subject can view the resource and prepare for exams.
- Implemented powerful filter module in which the staff or HOD can filter the students based on AND or OR conditions and Export if needed.
- Provided Creation of Subject and Enrollment for each and every students for specific department and sections.
- Provided Creation of Groups and Common Share Link. The Resources can be uplaoded to the specific groups and the user access this link can access the resource.
- Implemented Feedback Module Which can be created by admin(HOD) and the feedback are assigned for department in which each student has to provide a feedback for specific subject staff and the staff has to give feedback of the specific sectional department.

- Provided Constitutional Reports which shows the segregated data of the students in the particular section and department of the specific batch and the report also shows the percentile feedback for each and every staff of the specific subject. The Feedback Module can also be used by the external provider such as brain storm session, workshop etc.
- This Product also calculates the attendance percentage of each and every student and segregated dates in which the student is absent as well as present.

Environment: J2EE, JSP, Spring MVC, Java, HTTP, Hibernate, REST, XML, JSON, SQL, HTML5, CSS, Java Script, Eclipse, IntelliJ, Junit, log4j, Git, Bootstrap, AJAX, JQuery, JSON, JPA