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## Project Students Helper Hand: A Standard Web Application Development Based on the Java Enterprise Edition Platform

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### ABSTRACT

The aim of the research is to develop a website where students can find the best possible hostel facilities, coaching institute, internship and training centers, and online courses. Our platform STUDENT HELPER HAND falls under java based web development project and help students to find the best possible hostel facilities, coaching institute, internship and training centers, and online courses. Our platform STUDENT HELPER HAND provides every requirement of a student and fulfill all of the objective and by providing extremely rich graphical user interface our portal is designed in a manner so that even a novice user can search best possible hostel facilities, coaching institute and training centers nearby their colleges and schools. Our motive is to provide a solution for creating and connecting hostel groups and training centers with every student. We will develop an interactive system which help students to find out the best possible hostel facilities, coaching institute, online courses and internship & training centers. Our platform is used to maximize access the information resource required to improve the existing system and aim established online system to fulfill the general requirements of students. It is a platform or we can say interface between the landlord and seekers which will reduce the manual work of both the landlord and seekers.

**Scope :** STUDENT HELPER HAND website is basically used by every student those who wants to go out of their house for studies It is a platform or we can say interface between the landlord and seekers which will reduce the manual work of both the landlord and seekers

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**Keywords:** Java, Web Application, Student help

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### 1 Introduction

Our platform STUDENT HELPER HAND falls under java based web development project and help students to find the best possible hostel facilities, coaching institute, internship and training centers, and online courses. Our project contains a collection of web pages. Every web page provides a lot of information regarding different modules presented in this project. Via this project we will solve the problems of students like choosing best possible hostel facilities, finding offline tutors, coaching institute and training centers.

This web development project STUDENT HELPER HAND is implemented via full stack development where frontend will implemented by HTML, CSS, JAVASCRIPT, BOOTSTRAP and backend will implemented by JAVA and MySQL.

The design approach we used for our system is Iterative Waterfall Model. In this model of SDLC, the software development activities move to the next phase only after the activities in the current phase are over. However, unlike in the case with a waterfall model, one cannot return to the previous stage in case of Iterative Waterfall Model.

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The phases of this model are:

- Requirement Gathering and Analysis Phase
- Design Phase
- Coding Phase
- Testing and Debugging Phase
- Maintenance Phase

The most important advantage of the iterative waterfall model lies in the fact, that there is minimum planning overhead for the steps that are to follow, since the activities in each of the phases is carried out upfront, it is feasible that one does not have to plan for the entire phase. There is certain amount of rules and regulations that is enforced as one has to only look into one phase of the process at any given point of time. In other models it is often difficult to nail the start and end of the said phase, which is not the case with the iterative waterfall model. The most important of the advantage is that the project does not go out of deadline. The number of resources working on the project does not keep on increasing with each passing day and phases, as the planning for the same is done at the start of the phase itself. Our project contains a collection of web pages. Every web page provides a lot of information regarding different modules presented in this project. We use this software development model for our web project.

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## 2. Working

Student helper hand Project is divided into four module and every module have their working This web development project STUDENT HELPER HAND is implemented via full stack development where frontend will implemented by HTML, CSS, JAVASCRIPT, BOOTSTRAP and backend will implemented by JAVA and MySQL.

**Login & Registration** : Modules contain login and registration and every type of user must register themselves on our platform so that they can use it properly.

**Profile Management** : Profiles can be managed by editing their profiles.

**Administration** : Admin can view everything and may delete harmful accounts.

**Feedback and Compliment** : Every user can give feedback about modules and hostels ,college , tutors available on our platform.

**Search Management** : Searching into our sitte is quite easy and efficient.

**Validations** : Every modules have their level of validations.

### *Technology Stack*

#### [1] Eclipse

Eclipse is an integrated development environment (IDE) used in computer programming specially for java programming. It contains a base workspace and an extensible plug-in system for customizing the environment, here we are using eclipse for java dynamic programming.

#### [2] Servlet

A servlet is a small Java program that runs within a Web server. Servlets receive and respond to requests from Web clients, usually across HTTP requests, the HyperText Transfer Protocol.

#### [3] Java Server Page

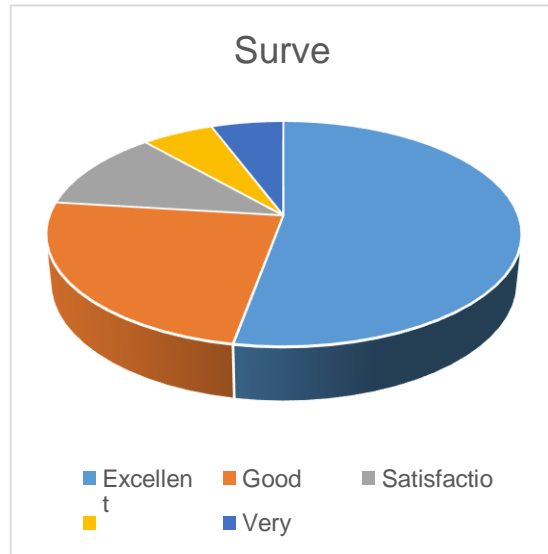
JavaServer page is a technology for developing Webpages that supports dynamic content. This JSPs helps developers insert java code in HTML pages by making use of special JSP tags, most of which start with <% and end with %>. A (JSP) component is a type of Java servlet that is designed to fulfill the role of a user interface for a Java web application. Web developers write JavaServer Pages as text files that combine HTML or XHTML code, XML elements, and embedded JSP actions and commands.

#### [4] Java Database Connectivity

(JDBC) is an application programming interface (API) for the programming language Java it helps to communicate with databases, which defines how a client may access a database. It is a Java- based data access technology used for JDBC. It is part of the Java Standard Edition platform (JAVA SE), from Oracle Corporation.

### 3 Research Methodology

**Survey :** This study is basis for our development .It is basically a questionnaire between students ,hostel owners ,tutors . In this area there is lots of website available but every one contain different modules but our platform contain everything on same platform. We find 5.5 in rating survey. We have discuss at many points for their needs.



### 4 Result and Discussion

With the help of this platform we may help every student at their own level of satisfaction to finding college , hostel , tutors near their own city. This portal also restrict unauthorized access of anyone via admin.

### 5 Conclusion

The research is based on the implementation of the web portal in web development platform. It is a web development project which provide more reliability to students in order to make right choices. Some of user requirements are user friendliness, data security and data maintainability.

All the requirements are included in this project. The maintenance is done only by authorized person which called as admin user. In future, the system can be extended to conduct various interacting systems for each and every person comes under the education society.

Our platform STUDENT HELPER HAND provides every requirement of a student and fulfill all of the objective and by providing extremely rich graphical user interface our portal is designed in a manner so that even a novice user can search best possible hostel facilities, coaching institute and training centers nearby their colleges and schools.

#### References

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