**Booktique In JSP**

Company: **AMERICAN TOWER CORPORATION**

Project: **Library Management Portal(Booktique)**

Student Name: **Rahul Chandra**

**(Mentors: Shubham Saxena Sir (@**[**shubham**](mailto:Shubham.Saxena@atctower.in)**), Amit Malhotra Sir (**[**@amit)**](mailto:Amit.Mohapatro@atctower.in)**)**

# **Project Link:**

I had already created the repository of the Project [**Booktique**](https://github.com/irahulcse/ATC)you can find all the source codes and files on this link.

I had also added the Vasudha(**@**[**Vasudha**](mailto:vasudha398@gmail.com)**),**, as a Collaborator on this project on GitHub.

# **ABOUT ME:**

I am sophomore undergraduate student pursuing a B.E. in Computer Science Engineering at Chandigarh University, Mohali. I am an Open Source Contributor who is thriving to work on any kinds of tools related to any projects in a short span of time.

My interest lies in Python and Web Development domain and in my free time I experiment with technologies and tools mostly outside of it.

I am very interested in Competitive Programming from the beginning of my freshman year where I learned my Advanced Data Structures in Python, C++ and Java thereby using C++ STL to the fullest. I was very active on the platforms like Codechef, Hackerrank etc. where I was able to bag some medals along the way, in competitions in inside and outside the campus.

**Contact Details:**

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**Resume Link:** Link to download the resume [it](https://app.enhancv.com/resume/5c6932199a94bd004e72856c/download).

**Primary Language:** English

**Telegram Id:** @irahulcse

## **Work Space:**

I’ve a setup at home with 40 mbps broadband connection and quiet environment to focus on the work without any hassle. I’m comfortable doing my internship as work from home and if I need any kind of support I can come on twice or thrice in a week for the support.

## **Availability:**

I’m willing to work for ~10 hours a day for 6 days in a week. Hence, I’m not willing to take any vacation longer than a day per week. I can also share the experience of the internship through a blog which could help them to evaluate the progress accordingly to it.

**PROJECT INFORMATION**:

## **Project Goals:**

1. To create a Library Management Portal(**Booktique)** which will be going to solve the problem for the Librarian to issue the book and return the book.
2. It will also help the company to find how many of them are thrive to learn and read about the employee.
3. It will also give them the statistical report according to the different parameters in the bar chart, line chart and box chart.
4. It will reduce the manual work by the long term thinking of how to reduce the stress from the user.

# **The Booktique**

## **Project Abstract:**

### **About Project:**

**ATC Booktique:**  This project will be going to prove as a permanent solution for the LMS of ATC, through which the member (permanent/contractual), librarian and admin could work parallel without interruption of each other. It will also reduce the burden from both the Administrative Side and Member Side for issuing the book.

After of it the user will be able to generate some kind of the visualized report on the basis of different constraints like according to book demand(on the basis of author, publisher year, publisher name and others.)

### **Situation Before Booktique:**

Till now, the Librarian work was totally dependent on the Excel sheets and he/she had to manually maintain the data of the book issued/returned/added and also needed to take care of who are the members or not. Through this the Librarian are not aware of the more important task.

# **Proposed Timeline and Objective:**

This is a tentative list of objective or overview, I am planning to achieve in the given time frame. There could be situations in which project may get delayed or get early completion. I had already planned to handle such situation with the help of a **buffer week** in which I will be going to do the documentation and testing part both so that whole project is in a good format all through.

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| **Week 1**  **Community Bonding Period**  **(13 May-18 May)** |
| * In this period I was first introduced with the team of ATC and got to meet my mentors and learnt about how Corporate works. * Got to know about the requirement specification for the Project **Booktique.** * After of it I had tried to find more information through meetings and sessions with my mentors Amit Sir and Shubham Sir. |

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| **Week 2**  **First Milestone**  **(19 May-25 May)** |
| * Created a dummy prototype with Java Swing and Palette, to find how Java works on the client side without any integration of Server. * Learnt about the JSP configuration through Eclipse IDE and was also introduced with MySql and Javascript Basics. * Learnt how to do the configuration of Tomcat Server Version 9.0 with Eclipse, to run the project on Google Chrome, Firefox, Microsoft Edge. * Created a Basic SRS Report and Database Table Report, which will be used to make the columns for the **Booktique**. |

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| **Week 3**  **Second Milestone**  **(26 May-2 June)** |
| * Created 2 **modules** (Login Page and Home Page) in JSP. * Created the database in MySQL through Command Line Client. * With the help of mentors we were be able to set the basic layout of Project to find how it will be going to work. * With session we had created the frameworks for the MySQL Database **Lib** and find the different requirements before entering the data on it. |

**2 June-4 June**

**Phase 1 Evaluation**

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| **Week 4**  **Third Milestone**  **(4 June –11 June)** |
| * On the basis of First Evaluation, I had changed and added some more columns to the database according to the SRS for better data processing and entering. * Add some animation features like Modal Box(Pop Up Box), Edit and Delete Records on the Add Book, Add Librarian, Add Member page, so that it will looks nice and good. * Completed the 3 out of 4 modules like Book, Lib, Mem and added all the configuration to it with the help and support from the Mentors / |

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| **Week 5**  **Fourth Milestone**  **(12 June- Till Now)** |
| * Add the features to download Static Report File(CSV file) through a button in the C: directory automatically of the PC/Laptop which will help them to easily work on the data without any hassle. * Looking forward to change the Book Table both in MySQL and JSP to reduce data redundancy and making easier for the Librarian to update the quantity for the same book of same author but with different ISBN no and Publishing Year, it will help us to easily reduce the data redundancy. |

**13 June**

**Phase 2 Evaluatio****n Completed**

# **References:**

1. [W3 School For Basic HTML and CSS.](https://www.w3schools.com/)
2. [JavaTPoint for the JSP and MySql based integeration and problems.](https://www.javatpoint.com/)
3. Q&A regarding the project and bugs [fixes](https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=2ahUKEwj4tqbfxejiAhXFeisKHfhKAr4QFjAAegQIVhAC&url=https%3A%2F%2Fstackoverflow.com%2F&usg=AOvVaw0C-i47dSU_h02E_IQoAztO).
4. [Youtbe for finding the integeration of different visualisation through JSON in JSP.](https://www.youtube.com/watch?v=5-ptp9tRApM)

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