**Knight Riders**

**Assignment 4**

**Info Doc.**

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1. **Division of Labor:**

Vineeth Aravelli:

Transaction.java, confirmationBooking.jsp, Bankservlet.java

Dhilip Ramesh:

updateHistory.java, Transactioncnfrm.jsp,Getpackageinfo.java

1. **Status :**

As Per the Requirement and steps to be done in the Document specified we have completed developing the application along with packages that we missed in the third assignment and also the Bonus requirements.

1. **Additional Features :**

We have done the extra credit feature for using the JQuery for the failure cases and also filtering the scripting from the text box.

1. **Challenges and Fixes:**

As per the requirements provided we have earlier implemented the bank model

And servlet using the SOAP request and responses and we were successful in implementing them and next we came to know that we have to use out database for the bank model.So we have implemented them with same AJAX calls using the jquery. For the Bank servlet we have used the Gson Library that use the Java Objects to fetch the details of the Flight and Bank that return values through the JSON.out main challenge was in parsing the JSON into the Table dynamically.we have did that parse and we were successful in implementing them.

1. **Programmer’s and User Manual:**

These two are provided in two separate files.

1. **Implementation of MVC:**

We have implemented the MVC Model using the RequestDispatcher. The following will give you how the six steps of the MVC model are implemented in our project.

The three components of the MVC are:

1. Model: Our Database.java is the model for the whole application.
2. View: All the JSPs form the View component of the MVC.
3. Controller: All the Servlets will be the Controllers of the application.

**Six Steps of the MVC Implementation:**

1. The JSP pages hold the input parameters required, and when the user enters these fields the inputs are directed to the servlets.
2. Upon receiving the inputs from the JSP, the servlets stores the fields in the required string variables.
3. The Model (Database.java) processes the string element inputs and queries them for the existence in the database and returns if the matching fields exist.
4. The fields that are acquired from the database are redirected back to the corresponding servlets.
5. RequestDispatcher will receive the data from the model and redirects them to the servlets.
6. Upon receiving the attributes, the servlets will send back the data to the JSP files for displaying the results.
7. **Role of Data Persistence in the Application:**

For the relation Databases we have used the MYSQL.

The Flow of the Data in our application is from the Database to the Front end of the application i.e. the JSP we have implemented this using the Creating the Bean which stores the data from the database and also throughout the life the life cycle of the project we have created the session that holds the object value of the Beans. The Session are terminated once the logout is done on the application and also for few Scenarios.