**FLYAWAY PROJECT PHASE \_2**

This document contains sections for:

* [Sprint planning and Task completion](#Sprint_plan)
* [Core concepts used in project](#Core_concepts)
* [Flow of the Application](#Flow).
* [Demonstrating the product capabilities, appearance, and user interactions.](#Product_capability)
* [Conclusions](#Conclusions)

The code for this project is hosted at:

https://github.com/karthikkoppula/phase2.git

The project is developed by Karthik Reddy.

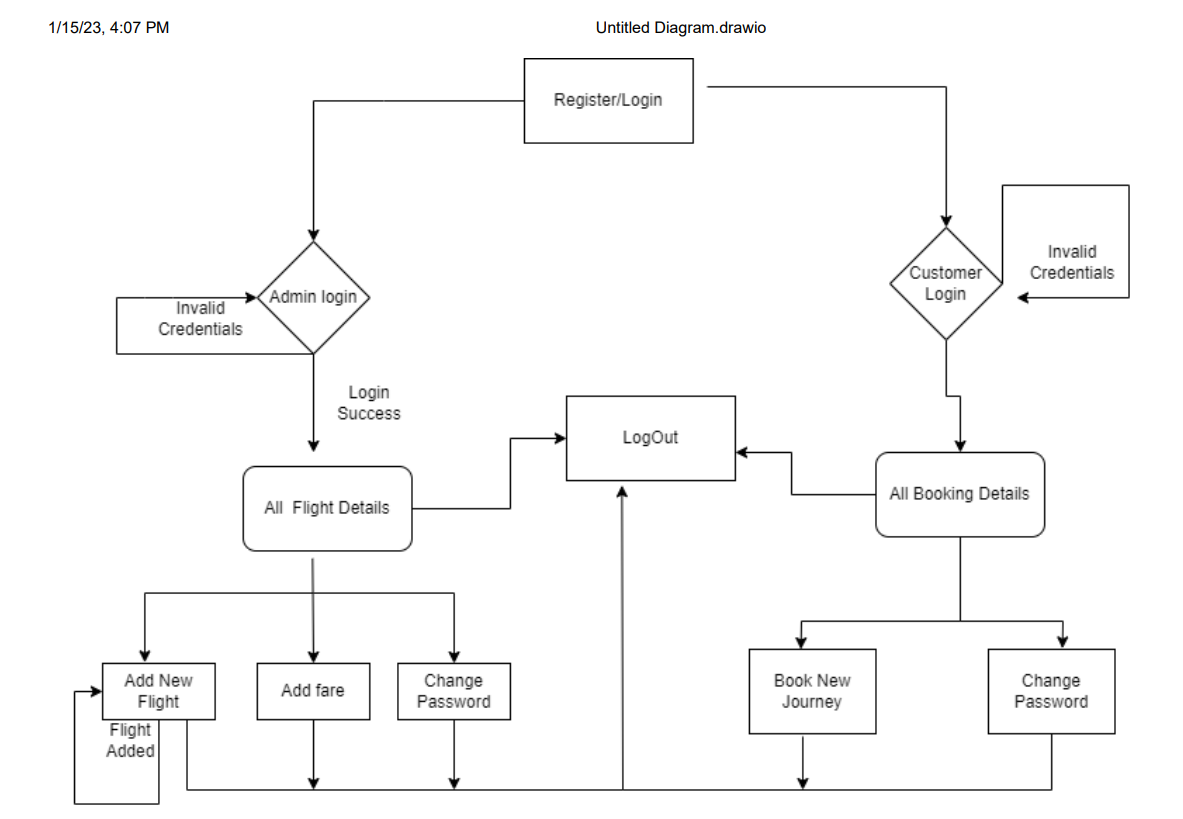
## Sprints planning and Task completion

The project is planned to be completed in 3 sprints. Tasks assumed to be completed in the sprint are:

* Creating the flow of the application
* Initializing git repository to track changes as development progresses.
* Writing the Java program to fulfill the requirements of the project.
* Testing the Java program with different kinds of User input
* Pushing code to GitHub.

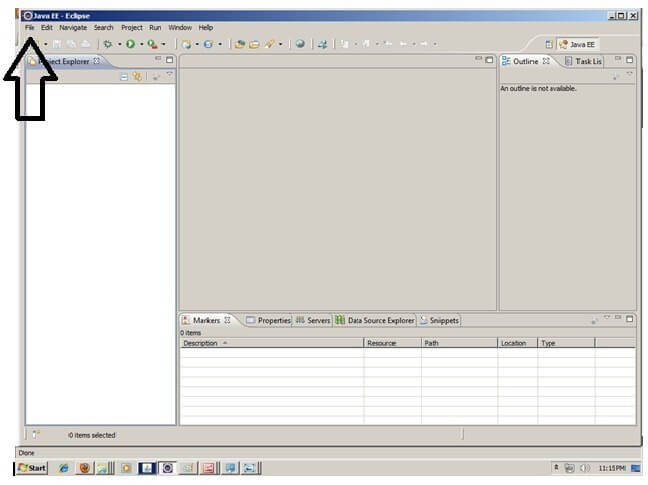
Creating this specification document highlighting application capabilities, appearance, and user interactions.

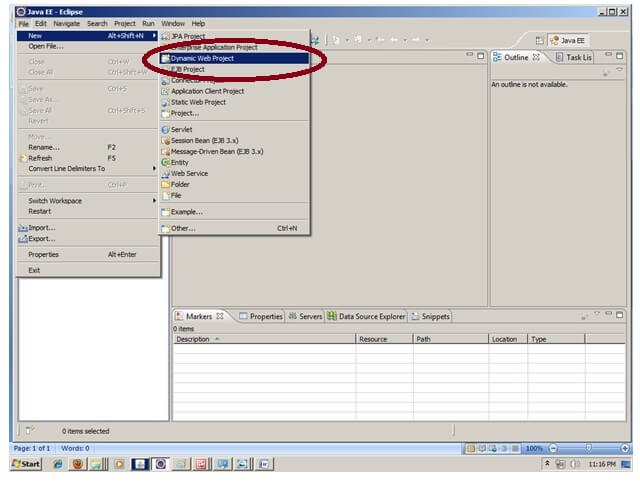
**Flowchart**

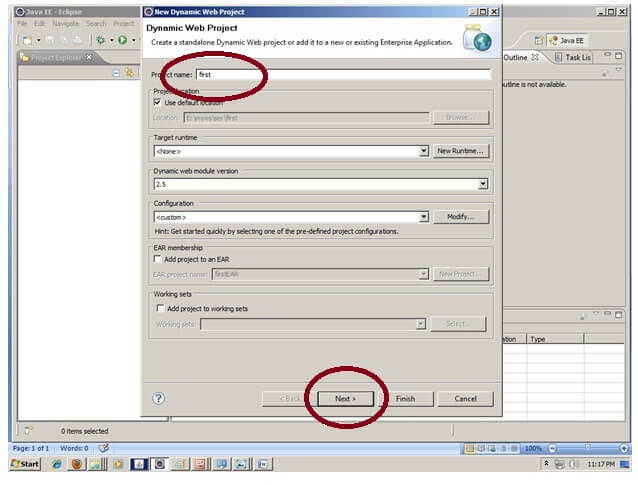
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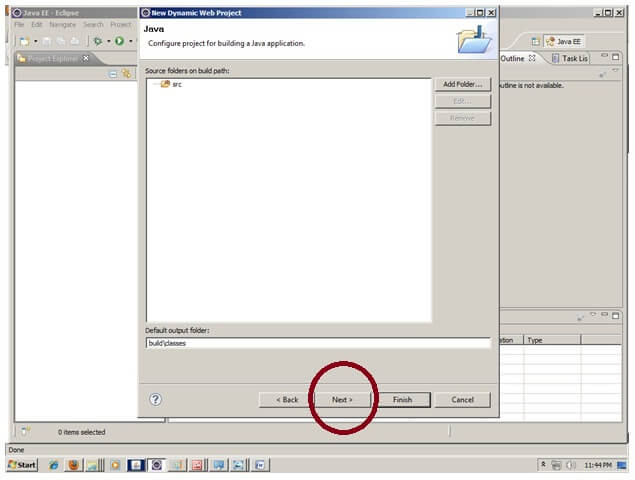
### **1) Create the dynamic web project:**

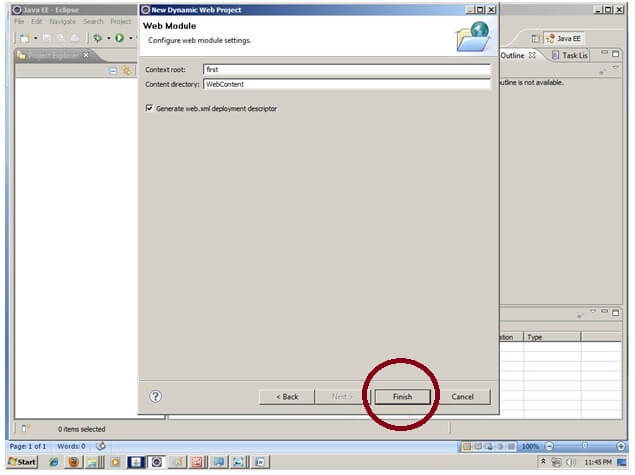
For creating a dynamic web project **click on File Menu -> New -> Project..-> Web -> dynamic web project -> write your project name e.g. first -> Finish**.

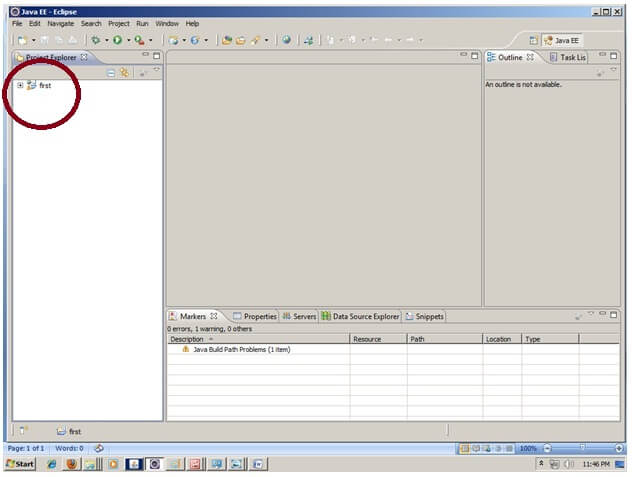






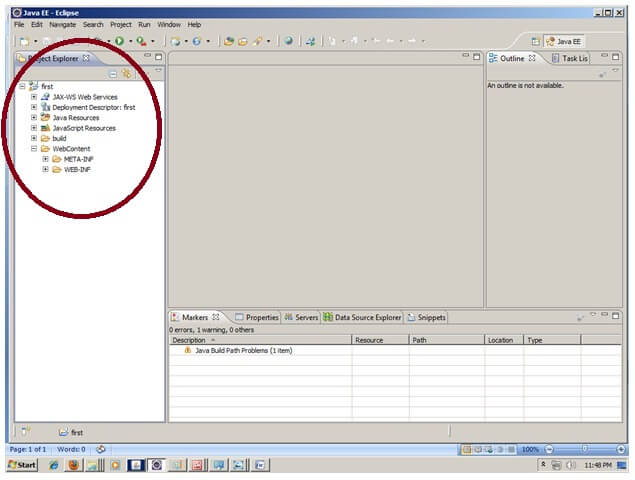


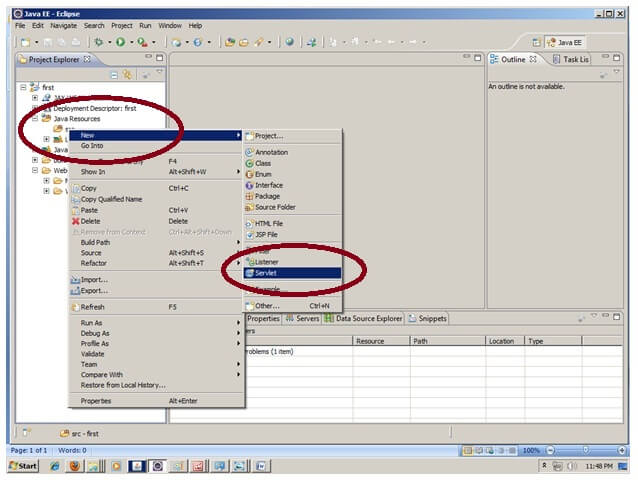


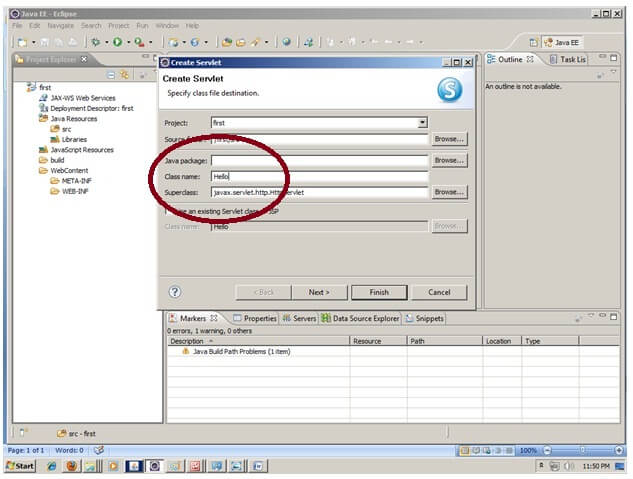


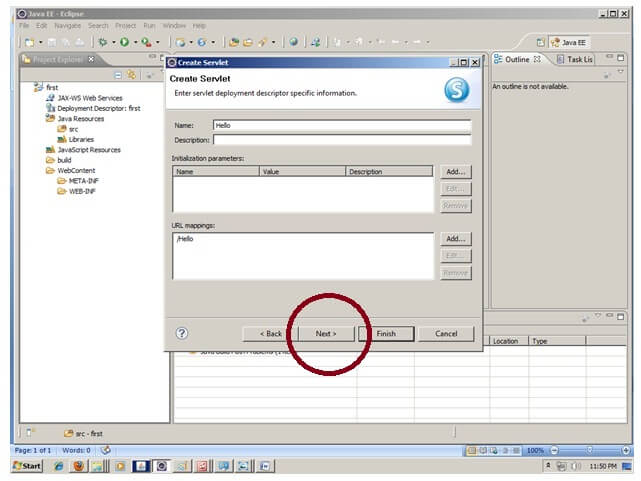
### **2) Create the servlet in eclipse IDE:**

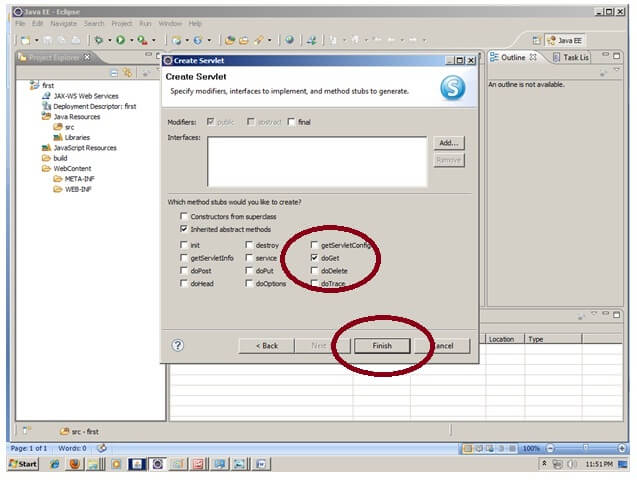
For creating a servlet, **explore the project by clicking the + icon -> explore the Java Resources -> right click on src -> New -> servlet -> write your servlet name e.g. Hello -> uncheck all the checkboxes except doGet() -> next -> Finish**.

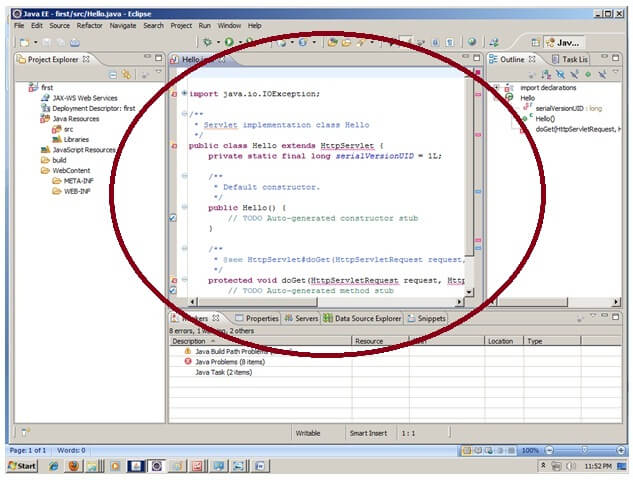






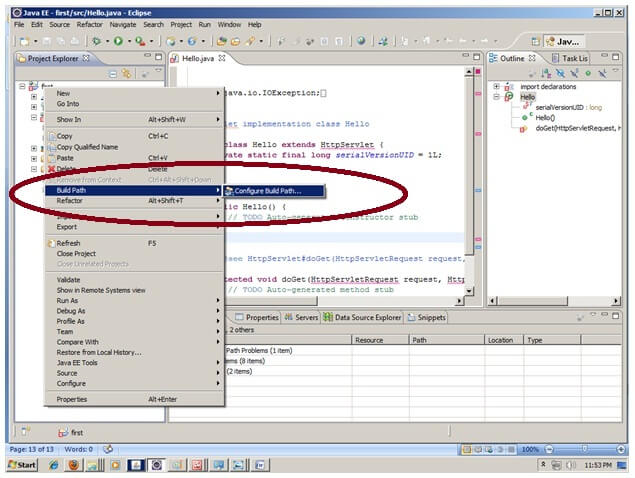


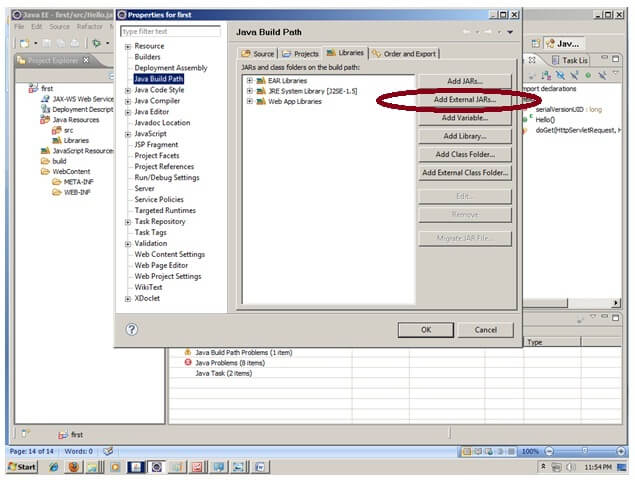


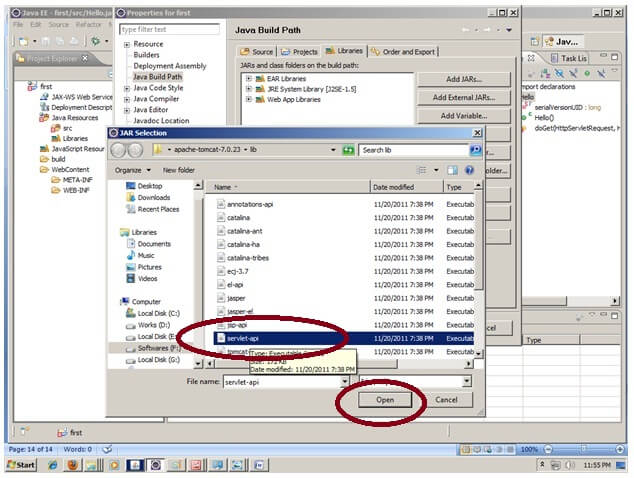


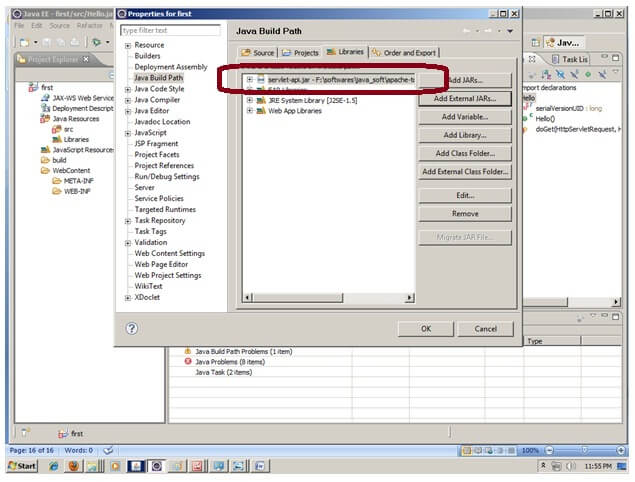
### **3) add jar file in eclipse IDE:**

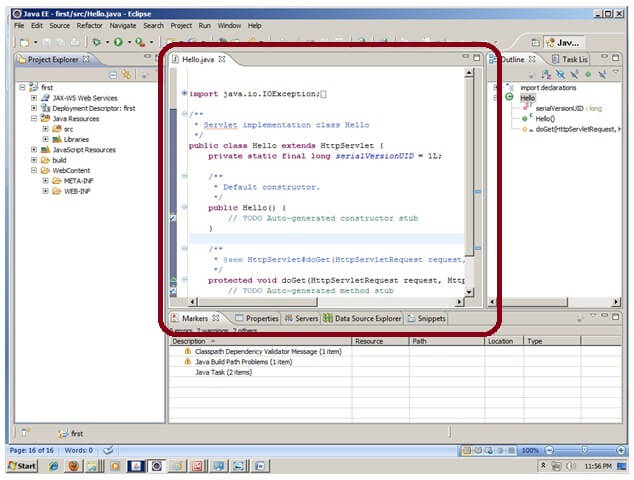
|  |
| --- |
| For adding a jar file, **right click on your project -> Build Path -> Configure Build Path -> click on Libraries tab in Java Build Path -> click on Add External JARs button -> select the servlet-api.jar file under tomcat/lib -> ok.** |



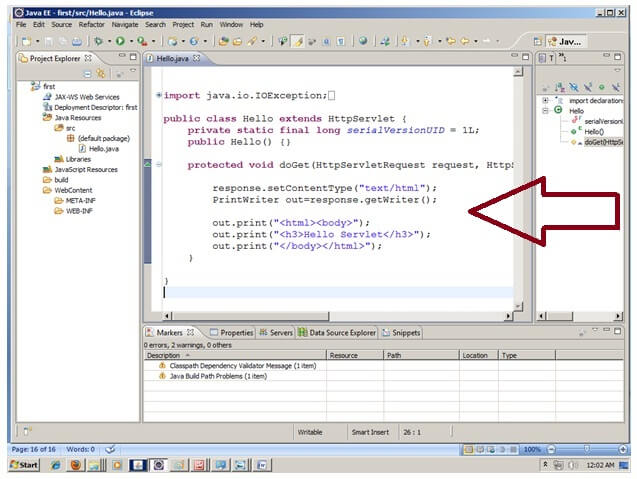






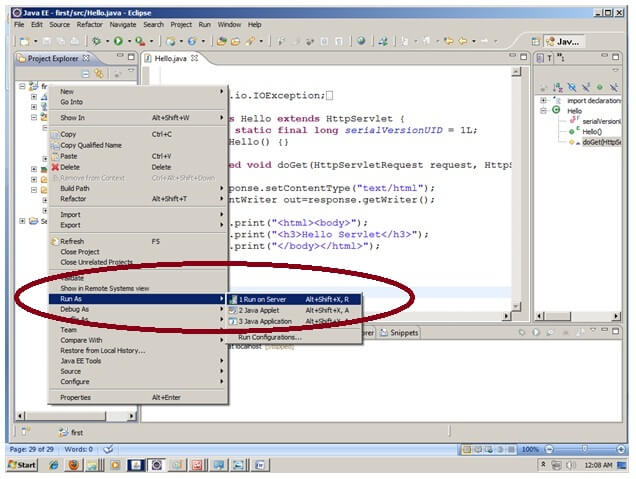


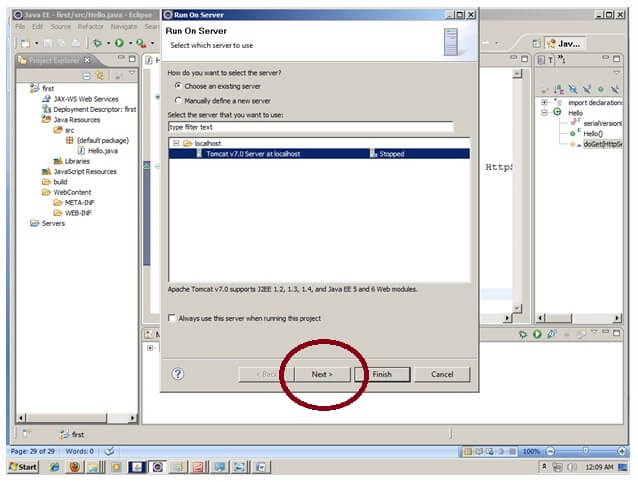
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| Now servlet has been created, Let's write the first servlet code. |

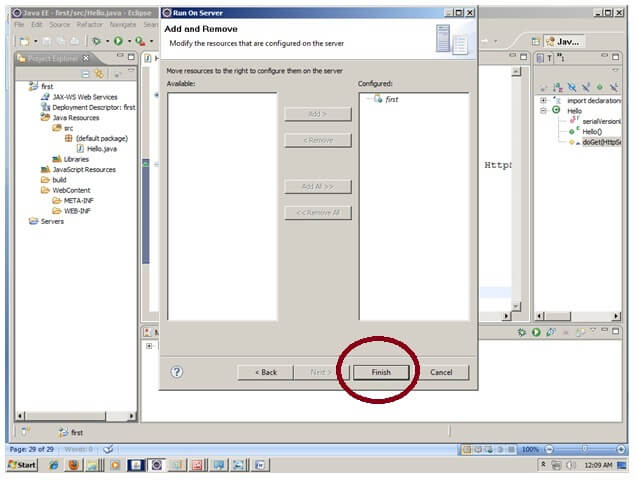


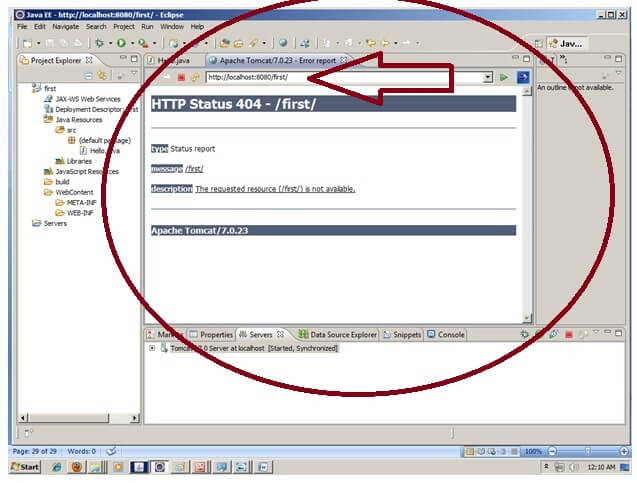
### **4) Start the server and deploy the project:**

For starting the server and deploying the project in one step, **Right click on your project -> Run As -> Run on Server -> choose tomcat server -> next -> addAll -> finish.**

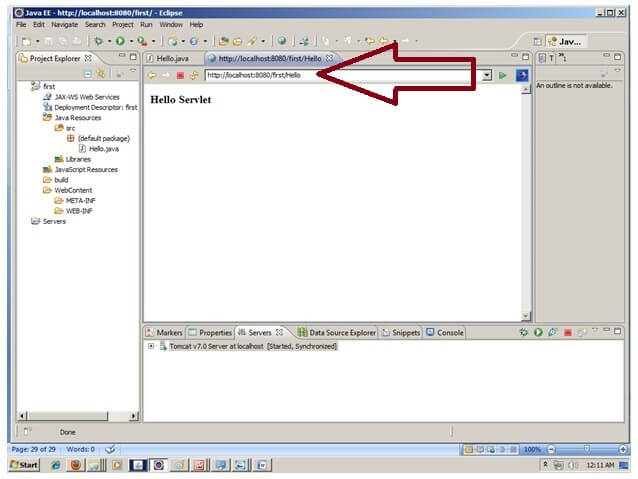








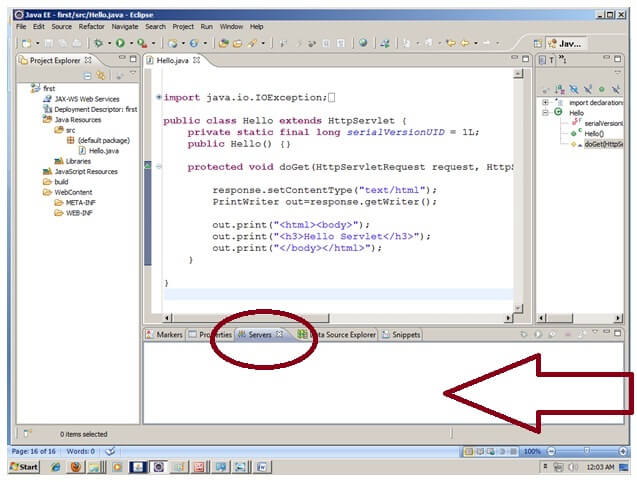
Now tomcat server has been started and project is deployed. To access the servlet write the url pattern name in the URL bar of the browser. In this case Hello then enter.

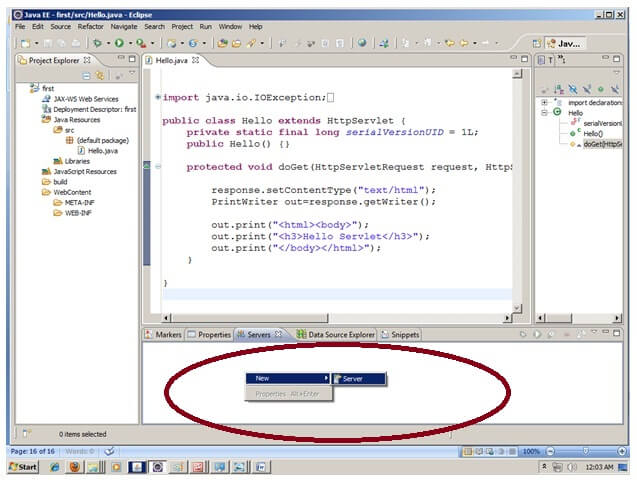


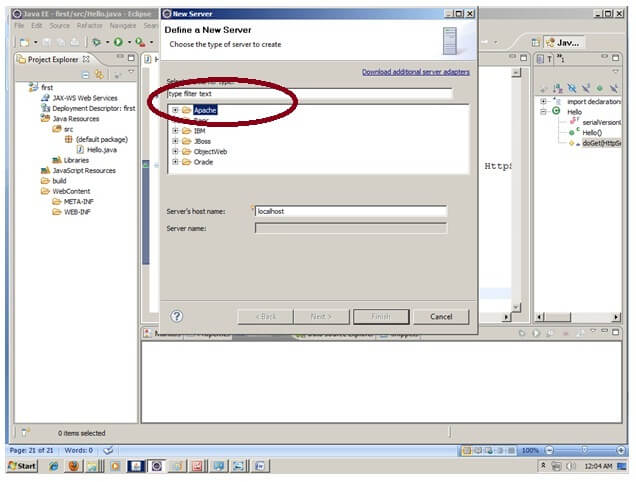
### **How to configure tomcat server in Eclipse :**

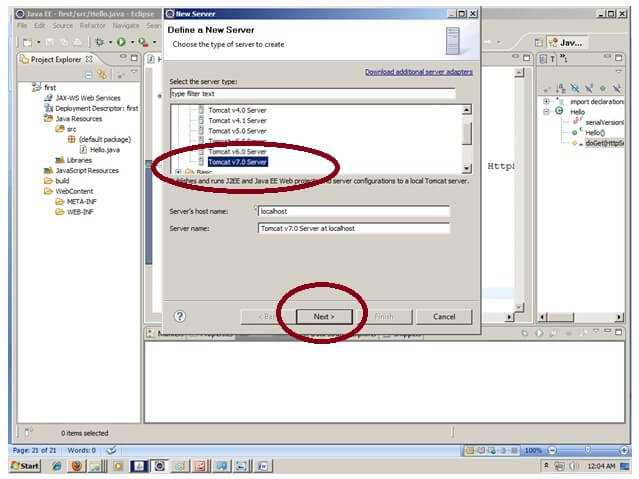
If you are using **Eclipse IDE first time**, you need to configure the tomcat server First.

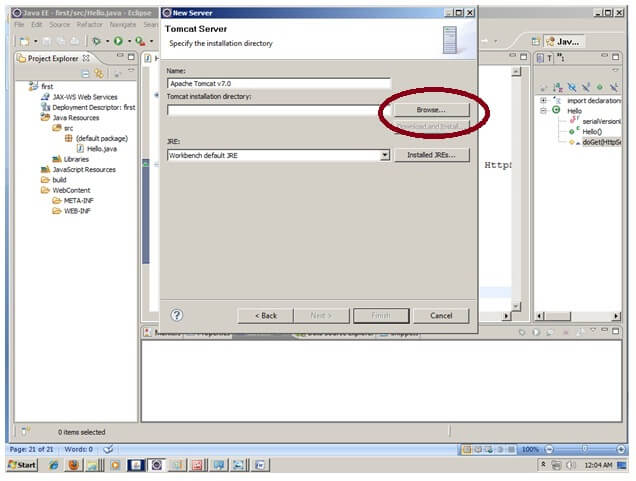
For configuring the tomcat server in eclipse IDE, **click on servers tab at the bottom side of the IDE -> right click on blank area -> New -> Servers -> choose tomcat then its version -> next -> click on Browse button -> select the apache tomcat root folder previous to bin -> next -> addAll -> Finish.**

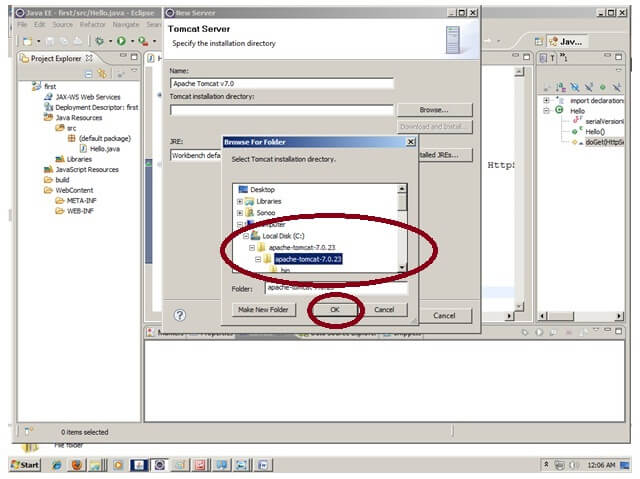


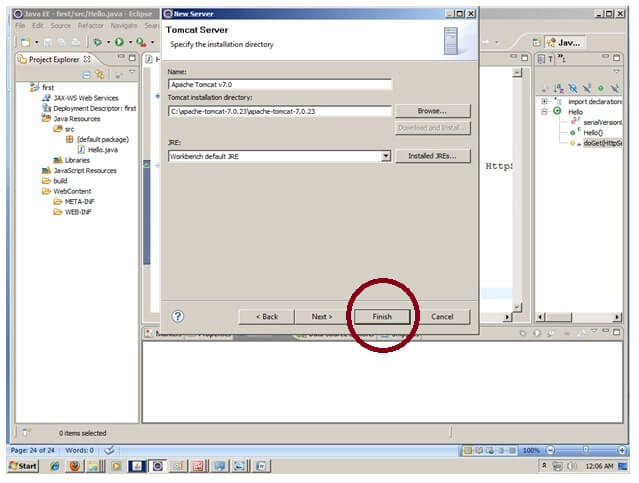




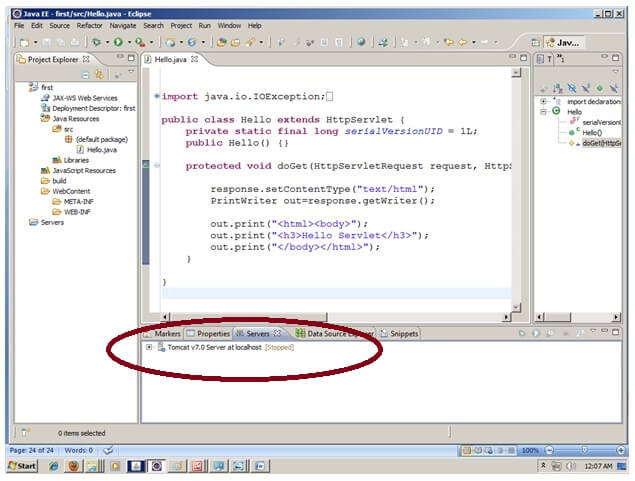








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**How to make MYSQL database connections In Eclipse using JDBC:**

package com.flyaway.dao;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.SQLException;

public class DBConnect {

public static Connection getConnection() throws SQLException {

Connection con = null;

String jdbcUrl = "jdbc:mysql://localhost:3306/flight\_reservation\_tracker?useSSL=false";

String driver = "com.mysql.cj.jdbc.Driver";

String user = "root";

String password = "Sujisk@0096";

try

{

Class.forName(driver);

con = DriverManager.getConnection(jdbcUrl, user, password);

System.out.println("con");

}catch(Exception e)

{

e.printStackTrace();

}

return con;

}

// public static void main(String[] args) {

//

// getConnection();

// System.out.println("Connection Established");

//

// }

}

**Database and Tables for FLYAWAY Project using MYSQL**

C:\Program Files\MySQL\MySQL Server 8.0\bin>mysql -u root -p

Enter password: \*\*\*\*\*\*\*\*\*\*\*

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 12

Server version: 8.0.31 MySQL Community Server - GPL

mysql> use flight\_reservation\_tracker

Database changed

mysql> show tables;

+--------------------------------------+

| Tables\_in\_flight\_reservation\_tracker |

+--------------------------------------+

| admin |

| airline |

| airport |

| customer |

| fare |

| flight |

| reservations |

+--------------------------------------+

7 rows in set (0.00 sec)

mysql> desc airport;

+--------------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------------+--------------+------+-----+---------+-------+

| airport | varchar(155) | YES | | NULL | |

| country | varchar(155) | YES | | NULL | |

| country\_code | varchar(155) | YES | | NULL | |

| airport\_code | varchar(155) | YES | | NULL | |

+--------------+--------------+------+-----+---------+-------+

4 rows in set (0.00 sec)

mysql> desc admin;

+----------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+--------------+------+-----+---------+-------+

| admin\_id | int | YES | | NULL | |

| email | varchar(155) | YES | | NULL | |

| password | varchar(155) | YES | | NULL | |

+----------+--------------+------+-----+---------+-------+

mysql> desc airport;

+--------------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------------+--------------+------+-----+---------+-------+

| airport | varchar(155) | YES | | NULL | |

| country | varchar(155) | YES | | NULL | |

| country\_code | varchar(155) | YES | | NULL | |

| airport\_code | varchar(155) | YES | | NULL | |

+--------------+--------------+------+-----+---------+-------+

4 rows in set (0.00 sec)

**mysql> insert into airport values('IGI Airport','India','IND','IGA');**

**Query OK, 1 row affected (0.01 sec)**

**mysql> insert into airport values('Dubai Airport','Dubai','DBA','DUBA');**

**Query OK, 1 row affected (0.01 sec)**

**mysql> insert into airport values('Nepal Airport','Nepal','NEP','NEPA');**

Query OK, 1 row affected (0.01 sec)

mysql> desc airline;

+-------------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------------+--------------+------+-----+---------+-------+

| airlinetype | varchar(155) | YES | | NULL | |

+-------------+--------------+------+-----+---------+-------+

1 row in set (0.00 sec)

mysql> desc flight;

+-------------------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------------------+--------------+------+-----+---------+-------+

| airline | varchar(155) | YES | | NULL | |

| weekdays | varchar(155) | YES | | NULL | |

| src\_airport\_code | varchar(155) | YES | | NULL | |

| dest\_airport\_code | varchar(155) | YES | | NULL | |

+-------------------+--------------+------+-----+---------+-------+

4 rows in set (0.00 sec)

**mysql> insert into flight values('Air Asia','MON\_TUE','IGA','NEPA');**

**Query OK, 1 row affected (0.01 sec)**

**mysql> insert into flight values('Indigo','WED\_THU','IGA','DUBA');**

**Query OK, 1 row affected (0.01 sec)**

**mysql> insert into flight values('GoFirst','FRI\_SAT','NEPA'**,'DUBA');

Query OK, 1 row affected (0.01 sec)

mysql> desc reservations;

+------------------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+------------------+--------------+------+-----+---------+-------+

| booking\_id | int | YES | | NULL | |

| flight\_number | int | YES | | NULL | |

| class | varchar(155) | YES | | NULL | |

| travel\_date | date | YES | | NULL | |

| no\_of\_passengers | int | YES | | NULL | |

| total\_fare | double | YES | | NULL | |

| customer\_id | int | YES | | NULL | |

+------------------+--------------+------+-----+---------+-------+

7 rows in set (0.00 sec)

**mysql> insert into reservations (booking\_id,flight\_number,class,travel\_date,no\_of\_passengers,total\_fare,customer\_id) values(123,651,'BU',"2023-01-15",2,5000,321),(456,69,'EC',"2023-01-16",2,6000,632),(789,420,'BU',"2023-01-17",2,6500,535);**

Query OK, 3 rows affected (0.01 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> desc admin;

+----------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+--------------+------+-----+---------+-------+

| admin\_id | int | YES | | NULL | |

| email | varchar(155) | YES | | NULL | |

| password | varchar(155) | YES | | NULL | |

+----------+--------------+------+-----+---------+-------+

3 rows in set (0.00 sec)

**mysql> insert into admin values(1,'satyamsksingh0096@gmail.com','Abc@123');**

**Query OK, 1 row affected (0.01 sec)**

**mysql> insert into admin values(1,'satya96@gmail.com','bc@123');**

**Query OK, 1 row affected (0.01 sec)**

mysql> desc airline;

+-------------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------------+--------------+------+-----+---------+-------+

| airlinetype | varchar(155) | YES | | NULL | |

+-------------+--------------+------+-----+---------+-------+

1 row in set (0.00 sec)

**mysql> insert into airline values('Air Asia');**

**Query OK, 1 row affected (0.01 sec)**

**mysql> insert into airline values('Indigo');**

**Query OK, 1 row affected (0.01 sec)**

**mysql> insert into airline values('GoFirst');**

**Query OK, 1 row affected (0.01 sec)**

mysql> desc customer;

+-------------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------------+--------------+------+-----+---------+-------+

| customer\_id | int | YES | | NULL | |

| first\_name | varchar(155) | YES | | NULL | |

| last\_name | varchar(155) | YES | | NULL | |

| email | varchar(155) | YES | | NULL | |

| password | varchar(155) | YES | | NULL | |

| phone | varchar(155) | YES | | NULL | |

+-------------+--------------+------+-----+---------+-------+

6 rows in set (0.01 sec)

**mysql> insert into customer values(321,'Satyam','Singh','ak09@gmail.com','Pk@0096','6205143846');**

**Query OK, 1 row affected (0.01 sec)**

**mysql> insert into customer values(632,'Sittu','Kumar','Prisk9@gmail.com','Sk@0096','7480036877');**

**Query OK, 1 row affected (0.01 sec)**

**mysql> insert into customer values(535,'Yash','Gupta','sittusk69@gmail.com','Sujisk@0096','9631458572');**

Query OK, 1 row affected (0.01 sec)

mysql> desc fare;

+---------------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------------+--------------+------+-----+---------+-------+

| flight\_number | int | YES | | NULL | |

| class | varchar(155) | YES | | NULL | |

| fare | double | YES | | NULL | |

+---------------+--------------+------+-----+---------+-------+

3 rows in set (0.00 sec)

**mysql> insert into fare values(651,'BU',5000);**

**Query OK, 1 row affected (0.01 sec)**

**mysql> insert into fare values(69,'EC',6000);**

**Query OK, 1 row affected (0.00 sec)**

**mysql> insert into fare values(420,'BU',6500);**

**Query OK, 1 row affected (0.00 sec)**

mysql> select \* from flight;

+----------+-----------------+------------------+-------------------+

| airline | weekdays | src\_airport\_code | dest\_airport\_code |

+----------+-----------------+------------------+-------------------+

| Air Asia | MON\_TUE | IGA | NEPA |

| Indigo | WED\_THU | IGA | DUBA |

| GoFirst | FRI\_SAT | NEPA | DUBA |

| Air | Sun | IGA | NEPA |

| Indigo | Sun\_Mon\_Tue\_Wed | IGA | NEPA |

+----------+-----------------+------------------+-------------------+

5 rows in set (0.00 sec)

**mysql> ALTER table flight ADD flight\_number int;**

**Query OK, 0 rows affected (0.02 sec)**

**Records: 0 Duplicates: 0 Warnings: 0**

mysql> desc flight;

+-------------------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------------------+--------------+------+-----+---------+-------+

| airline | varchar(155) | YES | | NULL | |

| weekdays | varchar(155) | YES | | NULL | |

| src\_airport\_code | varchar(155) | YES | | NULL | |

| dest\_airport\_code | varchar(155) | YES | | NULL | |

| flight\_number | int | YES | | NULL | |

+-------------------+--------------+------+-----+---------+-------+

5 rows in set (0.00 sec)

**mysql> insert into flight (flight\_number) values(651),(69),(420);**

Query OK, 3 rows affected (0.00 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> desc flight;

+-------------------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------------------+--------------+------+-----+---------+-------+

| airline | varchar(155) | YES | | NULL | |

| weekdays | varchar(155) | YES | | NULL | |

| src\_airport\_code | varchar(155) | YES | | NULL | |

| dest\_airport\_code | varchar(155) | YES | | NULL | |

| flight\_number | int | YES | | NULL | |

+-------------------+--------------+------+-----+---------+-------+

5 rows in set (0.00 sec)

mysql> select \* from flight;

+----------+-----------------+------------------+-------------------+---------------+

| airline | weekdays | src\_airport\_code | dest\_airport\_code | flight\_number |

+----------+-----------------+------------------+-------------------+---------------+

| Air Asia | MON\_TUE | IGA | NEPA | NULL |

| Indigo | WED\_THU | IGA | DUBA | NULL |

| GoFirst | FRI\_SAT | NEPA | DUBA | NULL |

| Air | Sun | IGA | NEPA | NULL |

| Indigo | Sun\_Mon\_Tue\_Wed | IGA | NEPA | NULL |

| NULL | NULL | NULL | NULL | 651 |

| NULL | NULL | NULL | NULL | 69 |

| NULL | NULL | NULL | NULL | 420 |

+----------+-----------------+------------------+-------------------+---------------+

8 rows in set (0.00 sec)

mysql> delete from flight where airline = 'NULL';

Query OK, 0 rows affected (0.00 sec)

mysql> select \* from flight;

+----------+-----------------+------------------+-------------------+---------------+

| airline | weekdays | src\_airport\_code | dest\_airport\_code | flight\_number |

+----------+-----------------+------------------+-------------------+---------------+

| Air Asia | MON\_TUE | IGA | NEPA | NULL |

| Indigo | WED\_THU | IGA | DUBA | NULL |

| GoFirst | FRI\_SAT | NEPA | DUBA | NULL |

| Air | Sun | IGA | NEPA | NULL |

| Indigo | Sun\_Mon\_Tue\_Wed | IGA | NEPA | NULL |

| NULL | NULL | NULL | NULL | 651 |

| NULL | NULL | NULL | NULL | 69 |

| NULL | NULL | NULL | NULL | 420 |

+----------+-----------------+------------------+-------------------+---------------+

8 rows in set (0.00 sec)

mysql> delete from flight where airline = '';

Query OK, 0 rows affected (0.00 sec)

mysql> select \* from flight;

+----------+-----------------+------------------+-------------------+---------------+

| airline | weekdays | src\_airport\_code | dest\_airport\_code | flight\_number |

+----------+-----------------+------------------+-------------------+---------------+

| Air Asia | MON\_TUE | IGA | NEPA | NULL |

| Indigo | WED\_THU | IGA | DUBA | NULL |

| GoFirst | FRI\_SAT | NEPA | DUBA | NULL |

| Air | Sun | IGA | NEPA | NULL |

| Indigo | Sun\_Mon\_Tue\_Wed | IGA | NEPA | NULL |

| NULL | NULL | NULL | NULL | 651 |

| NULL | NULL | NULL | NULL | 69 |

| NULL | NULL | NULL | NULL | 420 |

+----------+-----------------+------------------+-------------------+---------------+

8 rows in set (0.00 sec)

**mysql> delete from flight where flight\_number=651;**

**Query OK, 1 row affected (0.01 sec)**

**mysql> delete from flight where flight\_number=69;**

**Query OK, 1 row affected (0.01 sec)**

**mysql> delete from flight where flight\_number=420;**

Query OK, 1 row affected (0.01 sec)

mysql> select \* from flight;

+----------+-----------------+------------------+-------------------+---------------+

| airline | weekdays | src\_airport\_code | dest\_airport\_code | flight\_number |

+----------+-----------------+------------------+-------------------+---------------+

| Air Asia | MON\_TUE | IGA | NEPA | NULL |

| Indigo | WED\_THU | IGA | DUBA | NULL |

| GoFirst | FRI\_SAT | NEPA | DUBA | NULL |

| Air | Sun | IGA | NEPA | NULL |

| Indigo | Sun\_Mon\_Tue\_Wed | IGA | NEPA | NULL |

+----------+-----------------+------------------+-------------------+---------------+

5 rows in set (0.00 sec)

**mysql> delete from flight where airline=air;**

**ERROR 1054 (42S22): Unknown column 'air' in 'where clause'**

**mysql> delete from flight where airline='Air';**

Query OK, 1 row affected (0.01 sec)

mysql> select \* from flight;

+----------+-----------------+------------------+-------------------+---------------+

| airline | weekdays | src\_airport\_code | dest\_airport\_code | flight\_number |

+----------+-----------------+------------------+-------------------+---------------+

| Air Asia | MON\_TUE | IGA | NEPA | NULL |

| Indigo | WED\_THU | IGA | DUBA | NULL |

| GoFirst | FRI\_SAT | NEPA | DUBA | NULL |

| Indigo | Sun\_Mon\_Tue\_Wed | IGA | NEPA | NULL |

+----------+-----------------+------------------+-------------------+---------------+

4 rows in set (0.00 sec)

**mysql> delete from flight where airlin = 'Indigo' and dest\_airport\_code = 'NEPA';**

**ERROR 1054 (42S22): Unknown column 'airlin' in 'where clause'**

**mysql> delete from flight where airline = 'Indigo' and dest\_airport\_code = 'NEPA';**

**Query OK, 1 row affected (0.01 sec)**

mysql> select \* from flight;

+----------+----------+------------------+-------------------+---------------+

| airline | weekdays | src\_airport\_code | dest\_airport\_code | flight\_number |

+----------+----------+------------------+-------------------+---------------+

| Air Asia | MON\_TUE | IGA | NEPA | NULL |

| Indigo | WED\_THU | IGA | DUBA | NULL |

| GoFirst | FRI\_SAT | NEPA | DUBA | NULL |

+----------+----------+------------------+-------------------+---------------+

3 rows in set (0.00 sec)

**mysql> update flight SET flight\_number = 651 where airline = 'Air Asia';**

**Query OK, 1 row affected (0.01 sec)**

**Rows matched: 1 Changed: 1 Warnings: 0**

**mysql> update flight SET flight\_number = 69 where airline = 'Indigo';**

**Query OK, 1 row affected (0.01 sec)**

**Rows matched: 1 Changed: 1 Warnings: 0**

**mysql> update flight SET flight\_number = 420 where airline = 'GoFirst';**

**Query OK, 1 row affected (0.01 sec)**

**Rows matched: 1 Changed: 1 Warnings: 0**

mysql> select \* from flight;

+----------+----------+------------------+-------------------+---------------+

| airline | weekdays | src\_airport\_code | dest\_airport\_code | flight\_number |

+----------+----------+------------------+-------------------+---------------+

| Air Asia | MON\_TUE | IGA | NEPA | 651 |

| Indigo | WED\_THU | IGA | DUBA | 69 |

| GoFirst | FRI\_SAT | NEPA | DUBA | 420 |

+----------+----------+------------------+-------------------+---------------+

3 rows in set (0.00 sec)

mysql> desc admin;

+----------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+--------------+------+-----+---------+-------+

| admin\_id | int | YES | | NULL | |

| email | varchar(155) | YES | | NULL | |

| password | varchar(155) | YES | | NULL | |

+----------+--------------+------+-----+---------+-------+

3 rows in set (0.00 sec)

mysql> select \* from admin;

+----------+-----------------------------+----------+

| admin\_id | email | password |

+----------+-----------------------------+----------+

| 1 | xyz@gmailcom | 12345 |

| 1 | satyamsksingh0096@gmail.com | Abc@123 |

| 1 | satya96@gmail.com | bc@123 |

+----------+-----------------------------+----------+

3 rows in set (0.00 sec)

mysql> select \* from admin;

+----------+-----------------------------+----------+

| admin\_id | email | password |

+----------+-----------------------------+----------+

| 1 | xyz@gmailcom | 12345 |

| 1 | satyamsksingh0096@gmail.com | Abc@123 |

| 1 | satya96@gmail.com | bc@123 |

+----------+-----------------------------+----------+

3 rows in set (0.00 sec)

mysql> select \* from airline;

+-------------+

| airlinetype |

+-------------+

| Air Asia |

| Indigo |

| GoFirst |

+-------------+

3 rows in set (0.00 sec)

mysql> select \* from airport;

+---------------+---------+--------------+--------------+

| airport | country | country\_code | airport\_code |

+---------------+---------+--------------+--------------+

| IGI Airport | India | IND | IGA |

| Dubai Airport | Dubai | DBA | DUBA |

| Nepal Airport | Nepal | NEP | NEPA |

+---------------+---------+--------------+--------------+

3 rows in set (0.00 sec)

mysql> select \* from customer;

+-------------+------------+-----------+---------------------+-------------+------------+

| customer\_id | first\_name | last\_name | email | password | phone |

+-------------+------------+-----------+---------------------+-------------+------------+

| 321 | Satyam | Singh | ak09@gmail.com | Pk@0096 | 6205143846 |

| 632 | Sittu | Kumar | Prisk9@gmail.com | Sk@0096 | 7480036877 |

| 535 | Yash | Gupta | sittusk69@gmail.com | Sujisk@0096 | 9631458572 |

+-------------+------------+-----------+---------------------+-------------+------------+

3 rows in set (0.00 sec)

mysql> select \* from fare;

+---------------+----------+-------+

| flight\_number | class | fare |

+---------------+----------+-------+

| 651 | BU | 5000 |

| 69 | EC | 6000 |

| 420 | BU | 6500 |

| 651 | Business | 6000 |

| 69 | Premium | 10000 |

+---------------+----------+-------+

5 rows in set (0.00 sec)

mysql> select \* from flight;

+----------+----------+------------------+-------------------+---------------+

| airline | weekdays | src\_airport\_code | dest\_airport\_code | flight\_number |

+----------+----------+------------------+-------------------+---------------+

| Air Asia | MON\_TUE | IGA | NEPA | 651 |

| Indigo | WED\_THU | IGA | DUBA | 69 |

| GoFirst | FRI\_SAT | NEPA | DUBA | 420 |

+----------+----------+------------------+-------------------+---------------+

3 rows in set (0.00 sec)

mysql> select \* from reservations;

+------------+---------------+-------+-------------+------------------+------------+-------------+

| booking\_id | flight\_number | class | travel\_date | no\_of\_passengers | total\_fare | customer\_id |

+------------+---------------+-------+-------------+------------------+------------+-------------+

| 123 | 651 | BU | 2023-01-15 | 2 | 5000 | 321 |

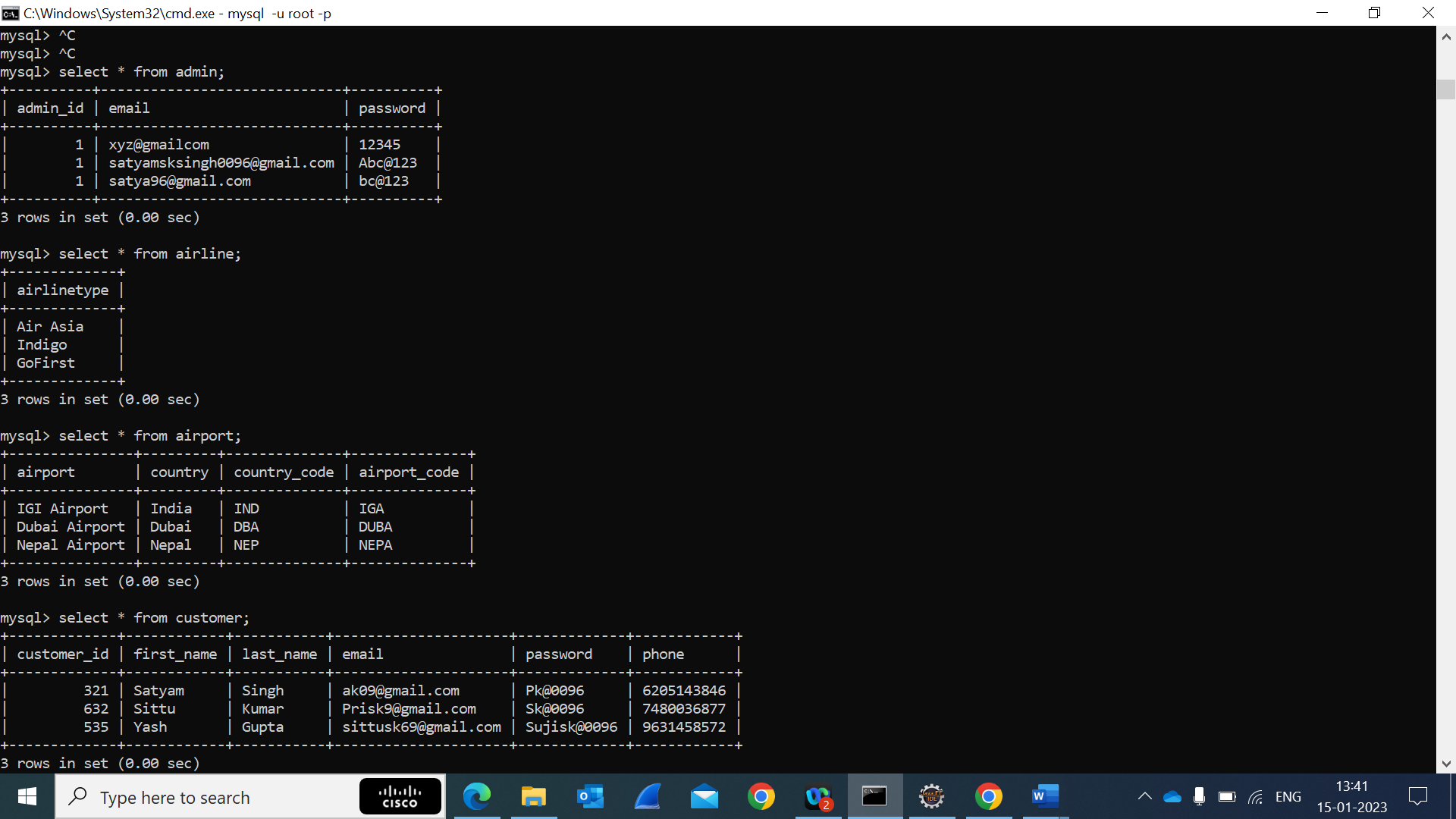
| 456 | 69 | EC | 2023-01-16 | 2 | 6000 | 632 |

| 789 | 420 | BU | 2023-01-17 | 2 | 6500 | 535 |

+------------+---------------+-------+-------------+------------------+------------+-------------+

3 rows in set (0.00 sec)

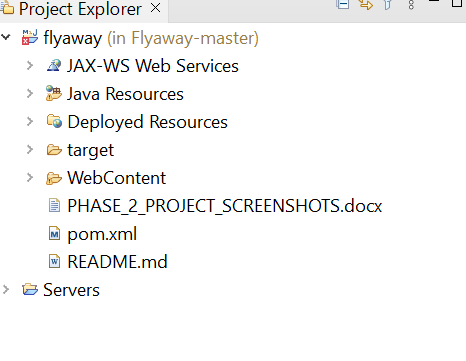
**Tables Created in Flight\_Reservation\_Tracker database**

****

**A screenshot of a computer

Description automatically generated with medium confidence**

FILE STRUCTURE OF FLY AWAY



Graphical user interface, application

Description automatically generated with medium confidence

Graphical user interface, application

Description automatically generated

**Core Concepts used in Project**

1. **Exceptions thrown in Project**

Parse Exception -

 This is a checked exception an it can occur when you fail to parse a String that is ought to have a special format. One very significant example on that is when you are trying to parse a String to a Date Object.

SQL Exception –

An exception that provides information on a database access error or other errors. Each SQLException provides several kinds of information: a string describing the error. This is used as the Java Exception message, available via the method getMesasge.

Servlet Exception –

When a servlet throws an exception, the web container searches the configurations in **web.xml** that use the exception-type element for a match with the thrown exception type.

IO Exception –

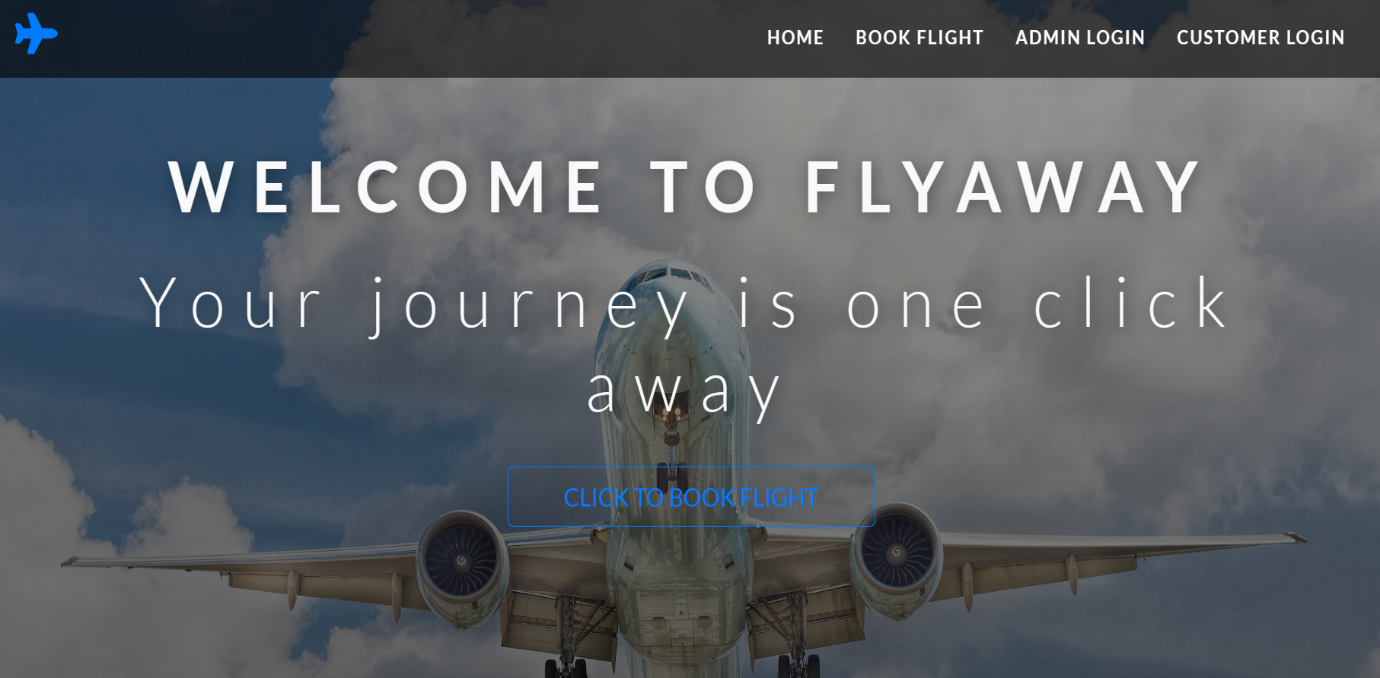
IOException is the base class for exceptions thrown while accessing information using streams, files and directories. The Base Class Library includes the following types, each of which is a derived class of IOException : DirectoryNotFoundException. EndOfStreamException. FileNotFoundException.

1. **Http Servlet**

Provides an abstract class to be subclassed to create an HTTP servlet suitable for a Web site. A subclass of HttpServlet must override at least one method, usually one of these:

* doGet, if the servlet supports HTTP GET requests
* doPost, for HTTP POST requests
* doPut, for HTTP PUT requests
* doDelete, for HTTP DELETE requests
* init and destroy, to manage resources that are held for the life of the servlet
* getServletInfo, which the servlet uses to provide information about itself

Output Screenshots:



Graphical user interface, text

Description automatically generatedGraphical user interface, application

Description automatically generatedGraphical user interface, application

Description automatically generated

**Deploying the Project in GitHub**

Open your command prompt and navigate to the folder where you have created your files.

● Initialize repository using the following command: git init

● Add all the files to your git repository using the following command: git add .

● Commit the changes using the following command: git commit . -m

● Push the files to the folder you initially created using the following command: git push -u origin master

**Conclusion**

-User enters details such as (Source, Destination, Date of travel and No of passengers)- After entering details user seletcs flight and class (Business, Economy , Premium) to book- User is asked to regiter on the website if user is new or user can login into already existing account- User is sent to a dummy payment page after confirming booking details for the payment- After confirming paymnet user is shown the booked ticket details which user can print if they wish to

**Customer Login** -   
- Customer can login into website with the details entered at the time of resitration- If the details provided are correct the user is sent to Customer Details page- In Customer Details Page User can see list of their previous booking and also can change password if they wish to- Customer details page also has the option to book flight if they wish to book a new journey

**Admin Login** -   
- Admin can login into website with their details- If the details provided are correct admin is sent to Admin Details Page- In Admin details page admin can see list of all the available flights- Admin also has the option to Add a new flight and fare related details- Admin can also change their password if they wish to