

# Railway Reservation System : Readme

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Followings are the files included :

- ServiceModule.java
- client.java
- sendQuery.java
- Invokeworkers.java
- addtotrains.java (need to compile/run for adding trains in database)
- stored\_procedure.sql (all stored procedure are in this files)
- tables.sql (all tables are in this file)
- pnr\_generator.java (need to compile/run for generating unique pnr number)
- Trainschedule.txt (trains to be added are in this file)

**addtotrains.java** = It takes input from the user and calls stored procedures and accordingly updates the train table in the database .

**stored\_procedure.sql** = It contains all stored procedures needed for updating , inserting and checking values in the database.

**tables.sql** = It contains all tables and corresponding attributes .

**pnr\_generator.java** = It generates unique pnr.

**Trainschedule.txt** = It contains information of all trains needed to be added in available trains.

## How to compile ?

1. Open postgres sql server.
2. Create a database named db using 'CREATE DATABASE db;'
3. Add password to database : '1234' using command '\password 1234'
4. Now copy the contents of tables.sql and stored\_procedures.sql.
5. Now compile all java files present : client, pnr\_generator, invokeWorkers, sendQuery, ServiceModule, addtotrain.
6. Make sure you have added Trainschedule.txt and all user inputs files in the folder named 'Input'.
7. Now run addtotrain file to store the trains in the database.
8. Now you run ServiceModule which will then wait for clients.
9. Now run the client on a separate terminal to run all output files concurrently on the database.
10. Now output files will be generated in folder 'Output' for each respective Input which will tell the status of the ticket for each user.
11. Below is the series of code you have to run for handling java part :

```
javac addtotrain.java
javac pnr_generator.java
javac invokeWorkers.java
javac sendQuery.java
javac ServiceModule.java
java addtotrain
java ServiceModule
java client
```

## What to expect from output ?

Each output file will tell the status of the user ticket. If the train is not available or seats not available then booking will fail and will be shown in the output file. If the booking operation is successful, output will have the ticket description for each passenger requested by the user.