

**Submitted to: Submitted by:**

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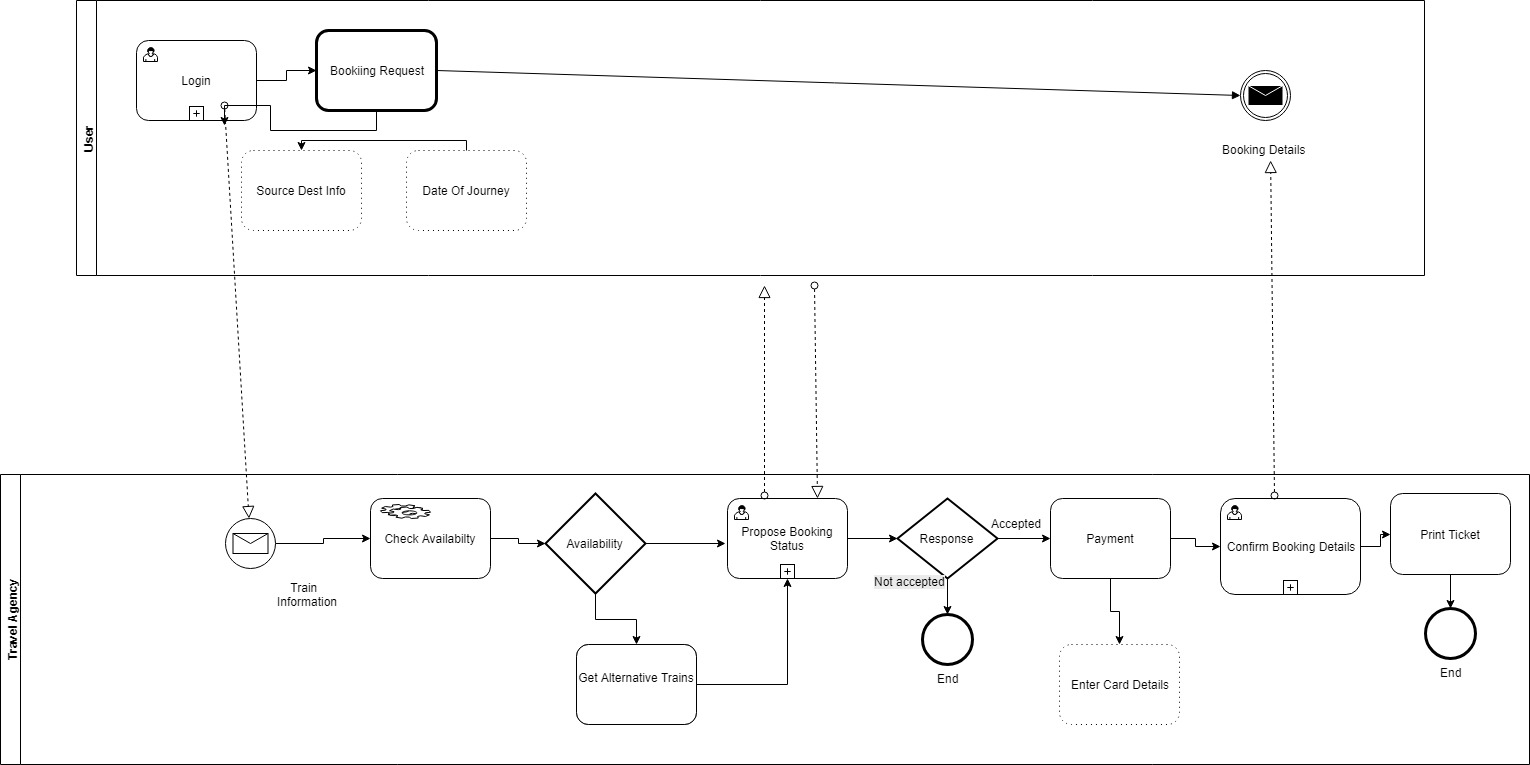
Roll no.: 11710519

Section: IT-1

**Experiment 3**

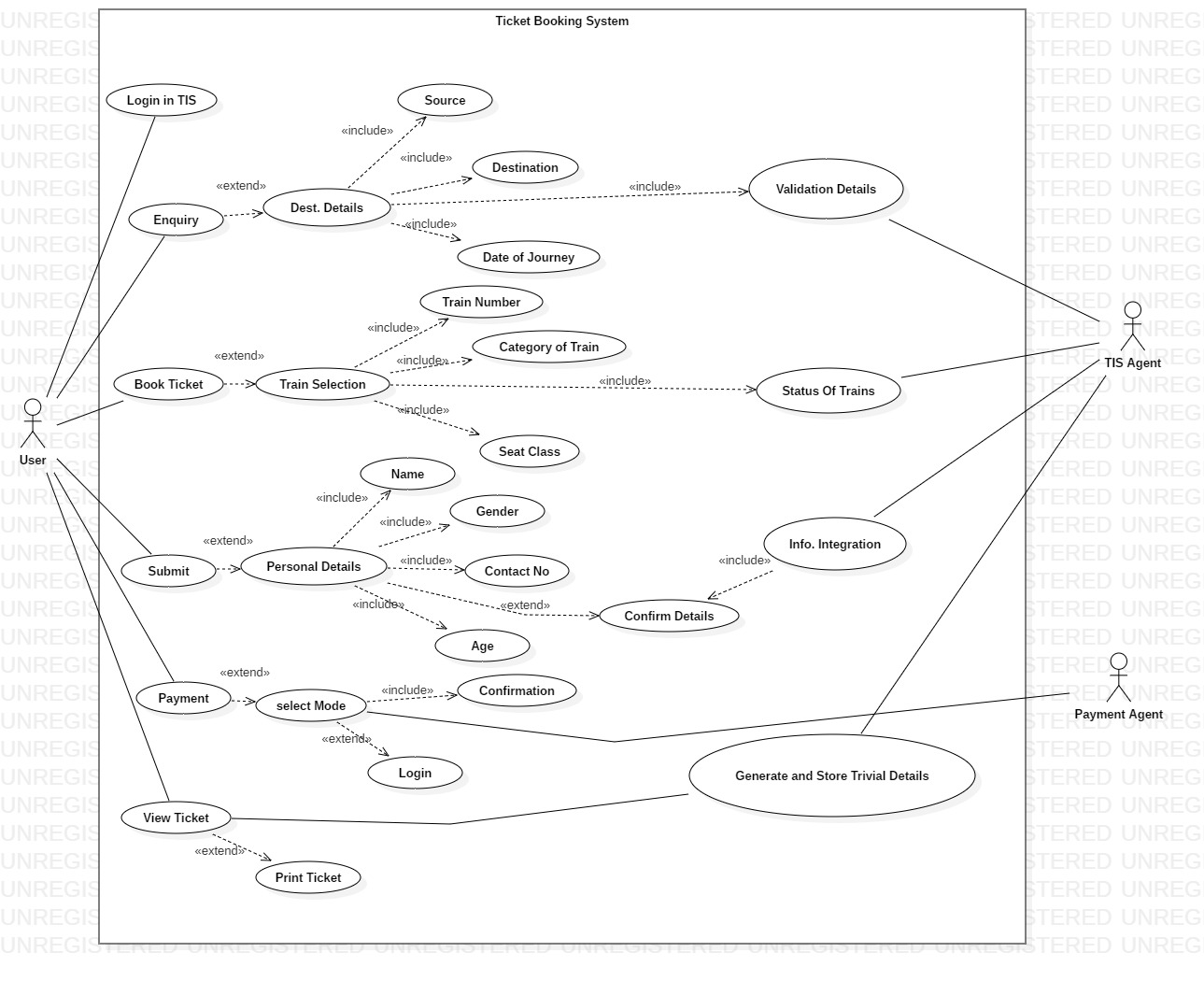
(A) Business Analysis Phase –

The appropriate verifier is BPMN.



(B) Requirement Definition Phase-

The appropriate verifier is Use Case Diagram.



(C)Analysis Design phase-

The appropriate verifier is Flow Chart Diagram.

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(D)Implementation Phase-

This project is implemented in Python Language.

import mysql.connector

import sqlalchemy as sa

import pandas as pd

from easygui import \*

db = mysql.connector.connect(host = "localhost" , user = "aca123321" , passwd = "aca123321")

cur = db.cursor()

engine = sa.create\_engine("mysql+pymysql://aca123321:aca123321@localhost:3306/raildb")

df = pd.read\_sql\_table("railinfo",engine)

def justname(x):

st = str(x)

st = st.replace("(","")

st = st.replace(")","")

st = st.replace("'","")

st = st.replace(",","")

return st;

choice = ["Username", "Password"]

un,pw = multenterbox("Sign in" , "Enter details:" , choice)

if(un == 'asd'):

if(pw == 'asd'):

# SUCCESSFUL Login

cur.execute("use raildb")

#source selection

cur.execute("select Source\_Station\_Name from railinfo group by Source\_Station\_Name")

ret = []

for x in cur:

ret.append(justname(x))

source = choicebox("Choose a source:" , "Source selection" , ret)

#destination selection

cur.execute("select Destination\_Station\_Name from railinfo group by Source\_Station\_Name")

ret = []

for x in cur:

ret.append(justname(x))

destination = choicebox("Choose a source:" , "Source selection" , ret)

st = "select \* from railinfo where Source\_Station\_Name = '" + str(source) + "' and Destination\_Station\_Name = '" + str(destination) + "'"

df = pd.read\_sql\_query(st,engine)

st = str(df.iloc[0:])

codebox("Available trains from " + str(source) + " to " + str(destination) + " are:" , "Trains display" , st)

exit()

else:

msgbox("Incorrect password:\nusername entered: " + un + "\npassword entered: " + pw , "Sign in result")

else:

msgbox("Incorrect username:\nusername entered: " + un + "\npassword entered: " + pw , "Sign in result")

(E)Testing Phase-

The appropriate verifiers are GUI Testing Tools.



