**package** com.capg.paymentwallet.test;

**import** **static** org.junit.Assert.\*;

**import** org.junit.BeforeClass;

**import** org.junit.Test;

**import** com.capg.paymentwallet.bean.AccountBean;

**import** com.capg.paymentwallet.bean.CustomerBean;

**import** com.capg.paymentwallet.exception.CustomerException;

**import** com.capg.paymentwallet.service.AccountServiceImpl;

**import** com.capg.paymentwallet.service.IAccountService;

**public** **class** AccountServiceImplTest {

**static** IAccountService *service* = **null**;

**static** AccountBean *accBean* = **null**;

**static** CustomerBean *custBean* = **null**;

@BeforeClass

**public** **static** **void** createInstance(){

*service*= **new** AccountServiceImpl();

*accBean* = **new** AccountBean();

*custBean* = **new** CustomerBean();

}

@Test(expected = CustomerException.**class**)

**public** **void** testForValidFirstName() **throws** Exception{

*custBean*.setFirstName("ppp");

*custBean*.setLastName("Joseph");

*custBean*.setPhoneNo("9988776655");

*custBean*.setEmailId("priyajoseph@gmail.com");

*custBean*.setPanNum("EXR7890654");

*custBean*.setAddress("Hyderabad");

*accBean*.setCustomerBean(*custBean*);

*accBean*.setBalance(10000);

**boolean** result = *service*.createAccount(*accBean*);

*assertFalse*(result);

}

@Test(expected = CustomerException.**class**)

**public** **void** testForValidLastName() **throws** Exception{

*custBean*.setFirstName("Priya");

*custBean*.setLastName("Jo");

*custBean*.setPhoneNo("9988776655");

*custBean*.setEmailId("priyajoseph@gmail.com");

*custBean*.setPanNum("EXR7890654");

*custBean*.setAddress("Hyderabad");

*accBean*.setCustomerBean(*custBean*);

*accBean*.setBalance(10000);

**boolean** result = *service*.createAccount(*accBean*);

*assertFalse*(result);

}

@Test(expected = CustomerException.**class**)

**public** **void** testForValidPhoneNumber() **throws** Exception{

*custBean*.setFirstName("Priya");

*custBean*.setLastName("Joseph");

*custBean*.setPhoneNo("122333");

*custBean*.setEmailId("priyajoseph@gmail.com");

*custBean*.setPanNum("EXR7890654");

*custBean*.setAddress("Hyderabad");

*accBean*.setCustomerBean(*custBean*);

*accBean*.setBalance(10000);

**boolean** result = *service*.createAccount(*accBean*);

*assertFalse*(result);

}

@Test(expected = CustomerException.**class**)

**public** **void** testForValidEmail() **throws** Exception{

*custBean*.setFirstName("Priya");

*custBean*.setLastName("Joseph");

*custBean*.setPhoneNo("9988776655");

*custBean*.setEmailId("priya");

*custBean*.setPanNum("EXR7890654");

*custBean*.setAddress("Hyderabad");

*accBean*.setCustomerBean(*custBean*);

*accBean*.setBalance(10000);

**boolean** result = *service*.createAccount(*accBean*);

*assertFalse*(result);

}

@Test(expected = CustomerException.**class**)

**public** **void** testForValidAddress() **throws** Exception{

*custBean*.setFirstName("Priya");

*custBean*.setLastName("Joseph");

*custBean*.setPhoneNo("122333");

*custBean*.setEmailId("priyajoseph@gmail.com");

*custBean*.setPanNum("EXR7890654");

*custBean*.setAddress(**null**);

*accBean*.setCustomerBean(*custBean*);

*accBean*.setBalance(10000);

**boolean** result = *service*.createAccount(*accBean*);

*assertFalse*(result);

}

@Test(expected = CustomerException.**class**)

**public** **void** testForValidBalance() **throws** Exception{

*custBean*.setFirstName("Priya");

*custBean*.setLastName("Joseph");

*custBean*.setPhoneNo("122333");

*custBean*.setEmailId("priyajoseph@gmail.com");

*custBean*.setPanNum("EXR7890654");

*custBean*.setAddress("Hyderabad");

*accBean*.setCustomerBean(*custBean*);

*accBean*.setBalance(100);

**boolean** result = *service*.createAccount(*accBean*);

*assertFalse*(result);

}

@Test

**public** **void** testDeposit() **throws** Exception{

*custBean*.setFirstName("Priya");

*custBean*.setLastName("Joseph");

*custBean*.setPhoneNo("9988776655");

*custBean*.setEmailId("priyajoseph@gmail.com");

*custBean*.setPanNum("EXR7890654");

*custBean*.setAddress("Hyderabad");

*accBean*.setCustomerBean(*custBean*);

*accBean*.setBalance(10000);

*service*.deposit(*accBean*, 2000);

*assertEquals*(12000,*accBean*.getBalance(),0);

}

@Test

**public** **void** testWithdraw() **throws** Exception {

*custBean*.setFirstName("Priya");

*custBean*.setLastName("Joseph");

*custBean*.setPhoneNo("9988776655");

*custBean*.setEmailId("priyajoseph@gmail.com");

*custBean*.setPanNum("EXR7890654");

*custBean*.setAddress("Hyderabad");

*accBean*.setCustomerBean(*custBean*);

*accBean*.setBalance(10000);

*service*.withdraw(*accBean*, 2000);

*assertEquals*(8000,*accBean*.getBalance(),0);

}

@Test(expected = CustomerException.**class**)

**public** **void** testWithdrawForNegativeCase() **throws** Exception {

*custBean*.setFirstName("Priya");

*custBean*.setLastName("Joseph");

*custBean*.setPhoneNo("9988776655");

*custBean*.setEmailId("priyajoseph@gmail.com");

*custBean*.setPanNum("EXR7890654");

*custBean*.setAddress("Hyderabad");

*accBean*.setCustomerBean(*custBean*);

*accBean*.setBalance(10000);

*service*.withdraw(*accBean*, 12000);

*assertEquals*(10000,*accBean*.getBalance(),0);

}

@Test

**public** **void** testFundTransfer() **throws** Exception {

*custBean*.setFirstName("Priya");

*custBean*.setLastName("Joseph");

*custBean*.setPhoneNo("9988776655");

*custBean*.setEmailId("priyajoseph@gmail.com");

*custBean*.setPanNum("EXR7890654");

*custBean*.setAddress("Hyderabad");

*accBean*.setCustomerBean(*custBean*);

*accBean*.setBalance(10000);

CustomerBean custBean1 = **new** CustomerBean();

AccountBean accBean1 = **new** AccountBean();

custBean1.setFirstName("John");

custBean1.setLastName("Joseph");

custBean1.setPhoneNo("9988776688");

custBean1.setEmailId("johnjoseph@gmail.com");

custBean1.setPanNum("KLM7890654");

custBean1.setAddress("Chennai");

accBean1.setCustomerBean(*custBean*);

accBean1.setBalance(10000);

*service*.fundTransfer(*accBean*, accBean1, 5000);

*assertEquals*(15000,accBean1.getBalance(),0);

}

}