EXPERIMENT-15

BLOOD BANK SYSTEM

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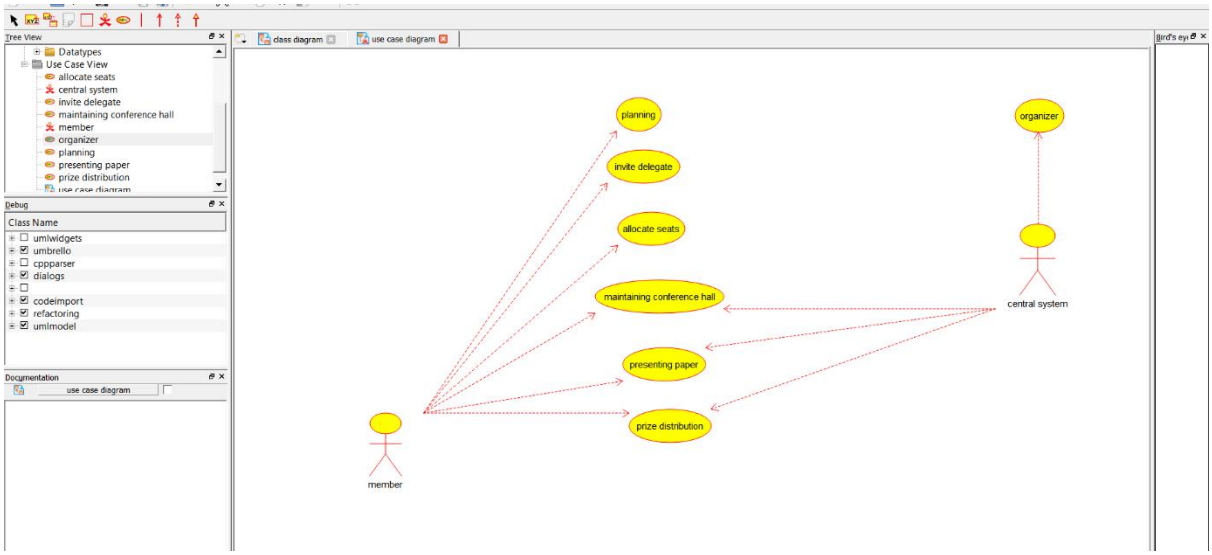
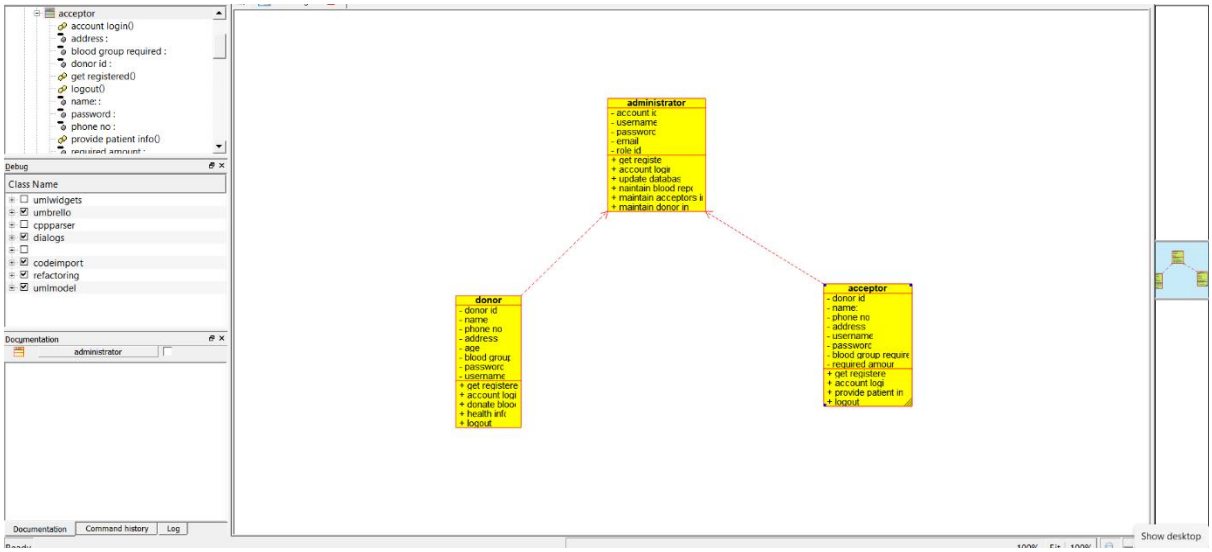
Course: CSA1155 Object oriented analysis and design

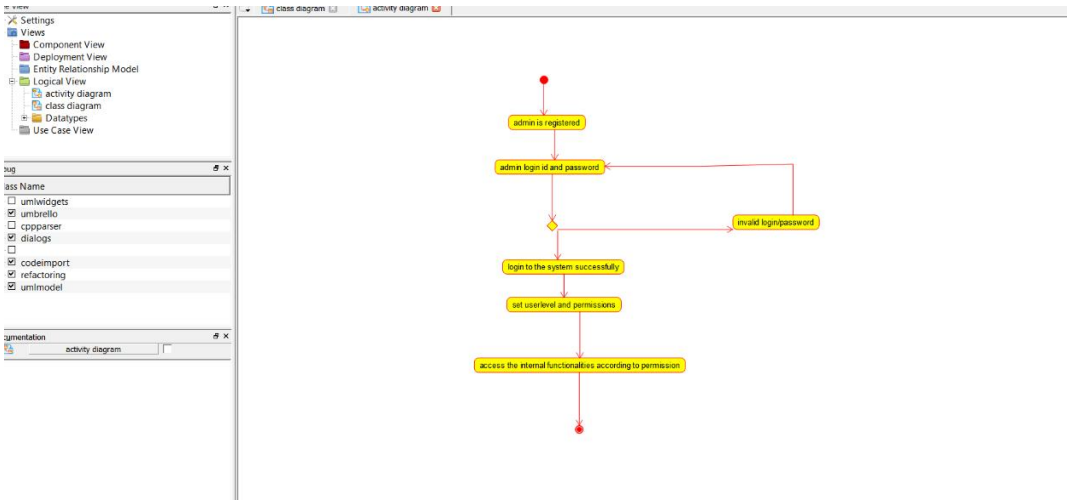
USE CASE DIAGRAM:



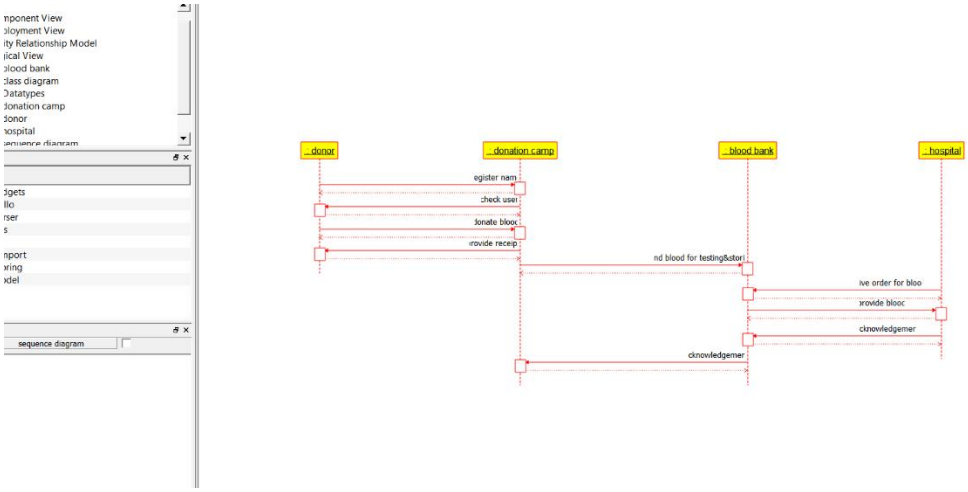
CLASS DIAGRAM:



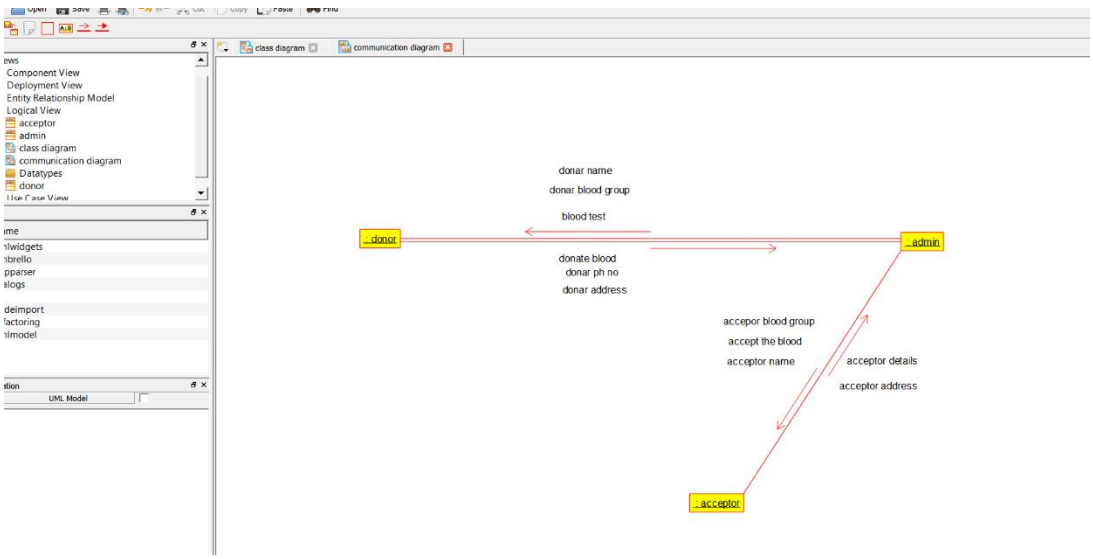
ACTIVITY DIAGRAM:



SEQUENCE DIAGRAM:



COLLABORATION DIAGRAM:



CODE GENERATED USING JAVA:

* Class administrator
*/

```
public class administrator {

 //
 // Fields
 //

 private void account_id;
 private void username;
 private void password;
 private void email;
 private void role_id;

 //
 // Constructors
 //
 public administrator () { };

 //
 // Methods
 //


 //
 // Accessor methods
 //

 /**
  * Set the value of account_id
  * @param newVar the new value of account_id
  */
 private void setAccount_id (void newVar) {
  account_id = newVar;
 }

 /**
  * Get the value of account_id
  * @return the value of account_id
  */
 private void getAccount_id () {
  return account_id;
 }

 /**
  * Set the value of username
  * @param newVar the new value of username
  */
 private void setUsername (void newVar) {
  username = newVar;
 }

 /**
```

```
 * Get the value of username
 * @return the value of username
 */
private void getUsername () {
  return username;
}

/**
 * Set the value of password
 * @param newVar the new value of password
 */
private void setPassword (void newVar) {
  password = newVar;
}

/**
 * Get the value of password
 * @return the value of password
 */
private void getPassword () {
  return password;
}

/**
 * Set the value of email
 * @param newVar the new value of email
 */
private void setEmail (void newVar) {
  email = newVar;
}

/**
 * Get the value of email
 * @return the value of email
 */
private void getEmail () {
  return email;
}

/**
 * Set the value of role_id
 * @param newVar the new value of role_id
 */
private void setRole_id (void newVar) {
  role_id = newVar;
}

/**
 * Get the value of role_id
 * @return the value of role_id
 */
```

```
 private void getRole_id () {
   return role_id;
 }

 //
 // Other methods
 //

 /**
  */
 public void get_register()
 {
 }


 /**
  */
 public void account_login_()
 {
 }


 /**
  */
 public void update_database()
 {
 }


 /**
  */
 public void naintain_blood_report()
 {
 }


 /**
  */
 public void maintain_acceptors_info()
 {
 }


 /**
  */
 public void maintain_donor_info()
 {
 }
**
 * Class donor
 */
```

```
public class donor {

 //
 // Fields
 //

 private void donor_id;
 private void name;
 private void phone_no;
 private void address;
 private void age;
 private void blood_group;
 private void password;
 private void username;

 //
 // Constructors
 //
 public donor () { };

 //
 // Methods
 //


 //
 // Accessor methods
 //

 /**
  * Set the value of donor_id
  * @param newVar the new value of donor_id
  */
 private void setDonor_id (void newVar) {
  donor_id = newVar;
 }

 /**
  * Get the value of donor_id
  * @return the value of donor_id
  */
 private void getDonor_id () {
  return donor_id;
 }

 /**
  * Set the value of name
  * @param newVar the new value of name
  */
 private void setName (void newVar) {
  name = newVar;
```

```
}

/**
 * Get the value of name
 * @return the value of name
 */
private void getName () {
  return name;
}

/**
 * Set the value of phone_no
 * @param newVar the new value of phone_no
 */
private void setPhone_no (void newVar) {
  phone_no = newVar;
}

/**
 * Get the value of phone_no
 * @return the value of phone_no
 */
private void getPhone_no () {
  return phone_no;
}

/**
 * Set the value of address
 * @param newVar the new value of address
 */
private void setAddress (void newVar) {
  address = newVar;
}

/**
 * Get the value of address
 * @return the value of address
 */
private void getAddress () {
  return address;
}

/**
 * Set the value of age
 * @param newVar the new value of age
 */
private void setAge (void newVar) {
  age = newVar;
}

/**
```

```
 * Get the value of age
 * @return the value of age
 */
private void getAge () {
  return age;
}

/**
 * Set the value of blood_group
 * @param newVar the new value of blood_group
 */
private void setBlood_group (void newVar) {
  blood_group = newVar;
}

/**
 * Get the value of blood_group
 * @return the value of blood_group
 */
private void getBlood_group () {
  return blood_group;
}

/**
 * Set the value of password
 * @param newVar the new value of password
 */
private void setPassword (void newVar) {
  password = newVar;
}

/**
 * Get the value of password
 * @return the value of password
 */
private void getPassword () {
  return password;
}

/**
 * Set the value of username
 * @param newVar the new value of username
 */
private void setUsername (void newVar) {
  username = newVar;
}

/**
 * Get the value of username
 * @return the value of username
 */
```

```
  private void getUsername () {
    return username;
  }

  //
  // Other methods
  //

  /**
   */
  public void get_registered()
  {
  }


  /**
   */
  public void account_login()
  {
  }


  /**
   */
  public void donate_blood()
  {
  }


  /**
   */
  public void health_info()
  {
  }


  /**
   */
  public void logout()
  {
  }
}
/**
 * Class acceptor
 */
public class acceptor {

  //
  // Fields
  //
```

```
private void donor_id;
private void name_;
private void phone_no;
private void address;
private void username;
private void password;
private void blood_group_required;
private void required_amount;

//
// Constructors
//
public acceptor () { };

//
// Methods
//


//
// Accessor methods
//

/**
 * Set the value of donor_id
 * @param newVar the new value of donor_id
 */
private void setDonor_id (void newVar) {
  donor_id = newVar;
}

/**
 * Get the value of donor_id
 * @return the value of donor_id
 */
private void getDonor_id () {
  return donor_id;
}

/**
 * Set the value of name_
 * @param newVar the new value of name_
 */
private void setName_ (void newVar) {
  name_ = newVar;
}

/**
 * Get the value of name_
 * @return the value of name_
 */
```

```
private void getName_ () {
  return name_;
}

/**
 * Set the value of phone_no
 * @param newVar the new value of phone_no
 */
private void setPhone_no (void newVar) {
  phone_no = newVar;
}

/**
 * Get the value of phone_no
 * @return the value of phone_no
 */
private void getPhone_no () {
  return phone_no;
}

/**
 * Set the value of address
 * @param newVar the new value of address
 */
private void setAddress (void newVar) {
  address = newVar;
}

/**
 * Get the value of address
 * @return the value of address
 */
private void getAddress () {
  return address;
}

/**
 * Set the value of username
 * @param newVar the new value of username
 */
private void setUsername (void newVar) {
  username = newVar;
}

/**
 * Get the value of username
 * @return the value of username
 */
private void getUsername () {
  return username;
}
```

```
/**
 * Set the value of password
 * @param newVar the new value of password
 */
private void setPassword (void newVar) {
  password = newVar;
}

/**
 * Get the value of password
 * @return the value of password
 */
private void getPassword () {
  return password;
}

/**
 * Set the value of blood_group_required
 * @param newVar the new value of blood_group_required
 */
private void setBlood_group_required (void newVar) {
  blood_group_required = newVar;
}

/**
 * Get the value of blood_group_required
 * @return the value of blood_group_required
 */
private void getBlood_group_required () {
  return blood_group_required;
}

/**
 * Set the value of required_amount
 * @param newVar the new value of required_amount
 */
private void setRequired_amount (void newVar) {
  required_amount = newVar;
}

/**
 * Get the value of required_amount
 * @return the value of required_amount
 */
private void getRequired_amount () {
  return required_amount;
}

//
// Other methods
```

```
    //

    /**
     */
    public void get_registered()
    {
    }


    /**
     */
    public void account_login()
    {
    }


    /**
     */
    public void provide_patient_info()
    {
    }


    /**
     */
    public void logout()
    {
    }


}
```