Proposition réalisé en TD

Diagramme de séquence système

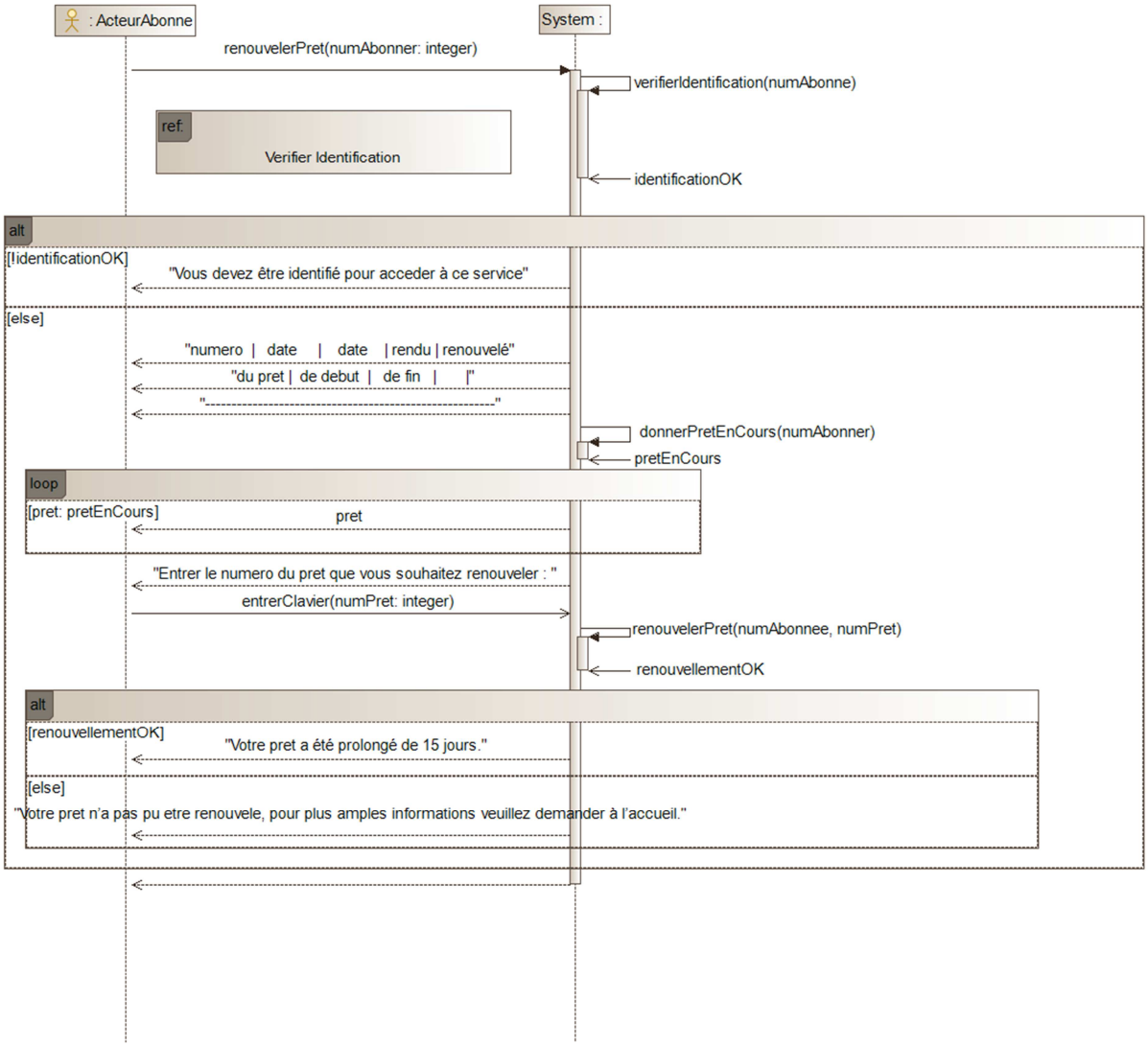


Diagramme de séquence détaillé

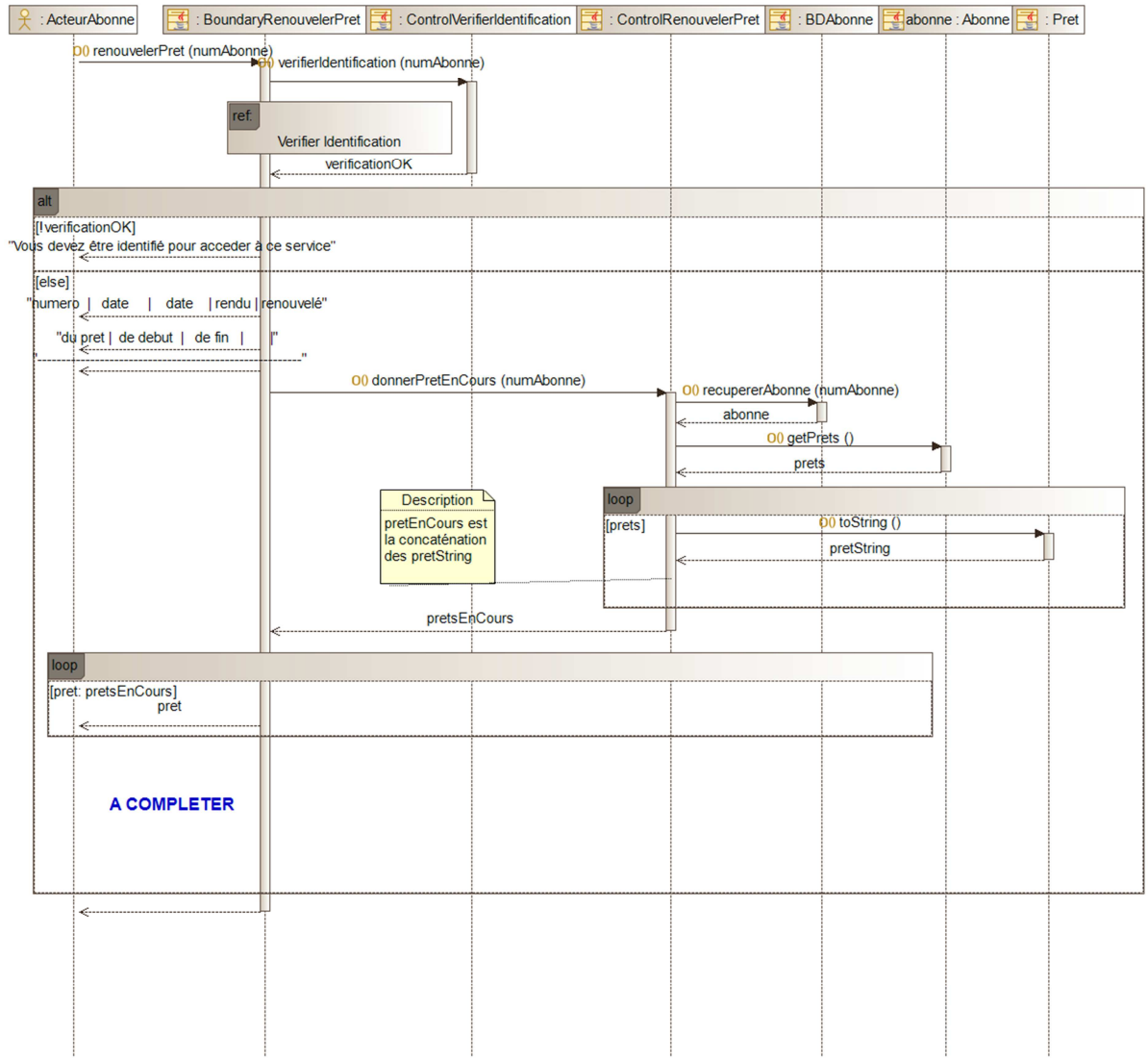
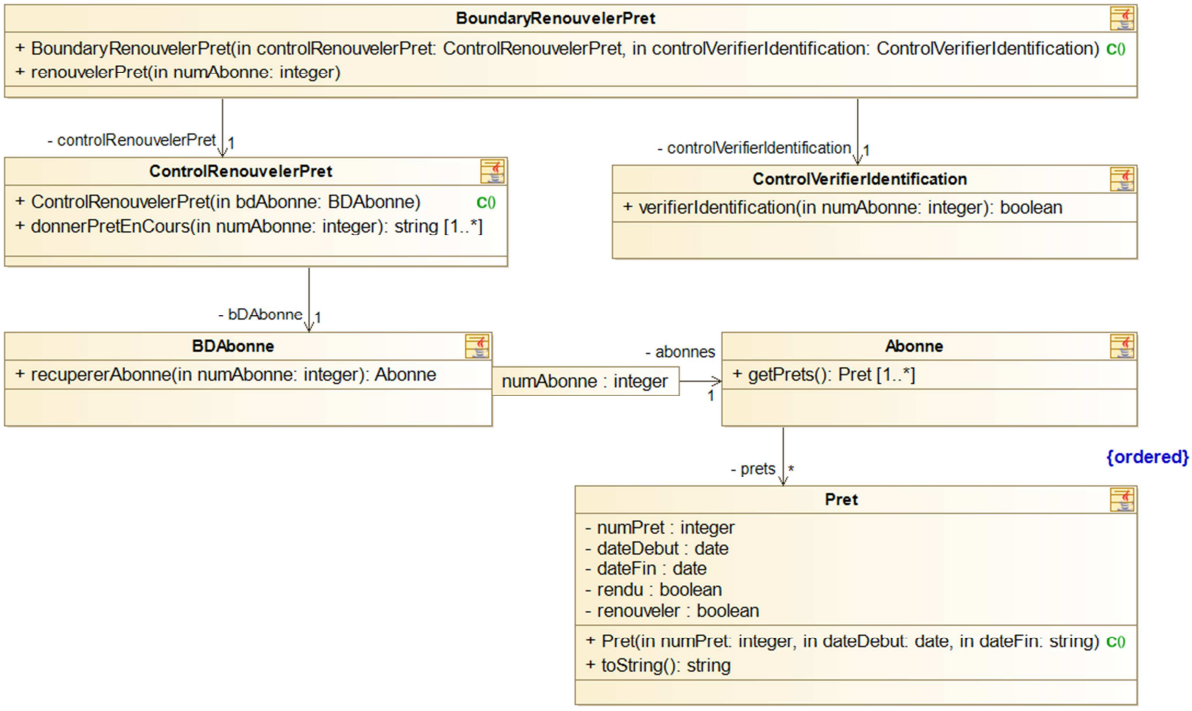
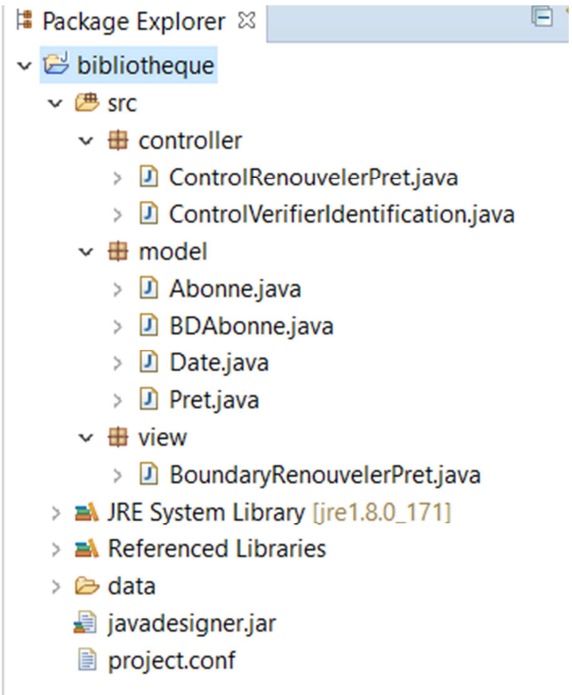


Diagramme de classes participantes



Code JAVA



```java
@objid("f6bd0aea-e238-404f-b7f3-3cc9d4eaf4ad")
public class BoundaryRenouvelerPret {
   @objid("8c0b69aa-280a-402d-9c9d-f33b661a0e78")
   private ControlRenouvelerPret controlRenouvelerPret;

   @objid("f97e261f-3a36-47da-be29-4def2e48c5b0")
   private ControlVerifierIdentification controlVerifierIdentification;

   @objid("c0427596-a5f1-488f-a860-7954cddad765")
   public BoundaryRenouvelerPret(ControlRenouvelerPret controlRenouvelerPret,
         ControlVerifierIdentification controlVerifierIdentification) {
      this.controlRenouvelerPret = controlRenouvelerPret;
      this.controlVerifierIdentification = controlVerifierIdentification;
   }

   @objid("5c393153-89ab-4bfc-bc4d-5b376a6b0fea")
   public void renouvelerPret(int numAbonne) {
      boolean verifierOK =
controlVerifierIdentification.verifierIdentification(numAbonne);
      if (!verifierOK) {
         System.out.println("Vous devez etre identifie pour acceder a ce service");
      } else {
         System.out.println("numero  |   date     |    date    | rendu |
renouvele");
         System.out.println("du pret |  de debut  |   de fin   |       |");
         System.out.println("-----------------------------------------------------
-");
         List<String> pretsEnCours =
controlRenouvelerPret.donnerPretEnCours(numAbonne);
         for (String pret : pretsEnCours) {
            System.out.println(pret);
         }
      }
   }

}


@objid("dab9e7a0-6449-4481-ae11-6d1557aa5ee1")
public class ControlVerifierIdentification {
      @objid("15385b59-4464-4cfa-a86f-be7ca1b68b49")
      public boolean verifierIdentification(int numAbonne) {
            // TODO a implementer
            return true;
      }

}
```

```java
@objid("0f855539-1d1e-4d9a-8cd5-00c05acfddd4")
public class ControlRenouvelerPret {
   @objid("4a7cc06a-7873-47c2-b565-c4f6fa93db59")
   private BDAbonne bdAbonne;

   @objid("3b1f7b9e-a2a5-4e4c-b45b-3fbbfb994fb5")
   public ControlRenouvelerPret(BDAbonne bdAbonne) {
      super();
      this.bdAbonne = bdAbonne;
   }

   @objid("b54c9ec4-4528-426c-87ba-7430698ec436")
   public List<String> donnerPretEnCours(int numAbonne) {
      Abonne abonne = bdAbonne.recupererAbonne(numAbonne);
      List<Pret> prets = abonne.getPrets();
      List<String> pretsEnCours = new ArrayList<>();
      for (Pret pret : prets) {
         pretsEnCours.add(pret.toString());
      }
      return pretsEnCours;
   }

}

@objid("98f0cce9-9d8c-4c54-ad28-a1a2dd38eb45")
public class BDAbonne {
   @objid("b2eb8e62-5772-4f2e-94a3-da9aa970149a")
   private Map<Integer, Abonne> abonnes = new HashMap<>();

   @objid("9446fa81-b1f8-41fe-a35e-30d1aaae4d04")
   public Abonne recupererAbonne(int numAbonne) {
      return abonnes.get(numAbonne);
   }

}

@objid("cae27b60-99cc-4039-a9d8-677ca8c5983c")
public class Abonne {
   @objid("ceada542-8ccf-4822-868c-681b8ab6ba3c")
   private List<Pret> prets = new ArrayList<>();

   @objid("f3c551db-15b7-42cb-9c1a-f9d5c6be9516")
   public List<Pret> getPrets() {
      return prets;
   }

}
```

```java
@objid("505c57e5-4ce4-474d-af2f-5884e5e0a410")
public class Pret {
   @objid("6d0ec215-f88c-4c60-a41c-5f91d9998214")
   private int numPret;

   @objid("f972eb2e-1011-459d-a2df-9a0eccc3c864")
   private Date dateDebut;

   @objid("b561150e-d8d1-415e-9951-987032ef38b5")
   private Date dateFin;

   @objid("35158e0b-f7d7-49cc-bffe-f24c547b056c")
   private boolean rendu = false;

   @objid("2606ae48-84a9-49c3-9edc-5dee255f1eb4")
   private boolean renouveler = false;

   public Pret(int numPret, Date dateDebut, Date dateFin) {
      super();
      this.numPret = numPret;
      this.dateDebut = dateDebut;
      this.dateFin = dateFin;
   }

   @objid("9710f5e1-94b2-48e9-8e58-90ad7b97ee3f")
   public String toString() {
      StringBuilder chaine = new StringBuilder("    " + numPret + "     | " +
dateDebut + " | " + dateFin + " |  ");
      if (rendu) {
         chaine.append(" vrai | ");
      } else {
         chaine.append(" non  | ");
      }
      if (renouveler) {
         chaine.append(" vrai | ");
      } else {
         chaine.append(" non  | ");
      }
      return chaine.toString();
   }
}
```

```java
public class Date {
   private int jour;
   private int mois;
   private int annee;

   public Date(int jour, int mois, int annee) {
      super();
      this.jour = jour;
      this.mois = mois;
      this.annee = annee;
   }

   @Override
   public String toString() {
      StringBuilder date = new StringBuilder();
      if (jour < 10) {
         date.append("0");
      }
      date.append(jour + "/");
      if (mois < 10) {
         date.append("0");
      }
      date.append(mois + "/");
      date.append(annee);
      return date.toString();
   }
}
```