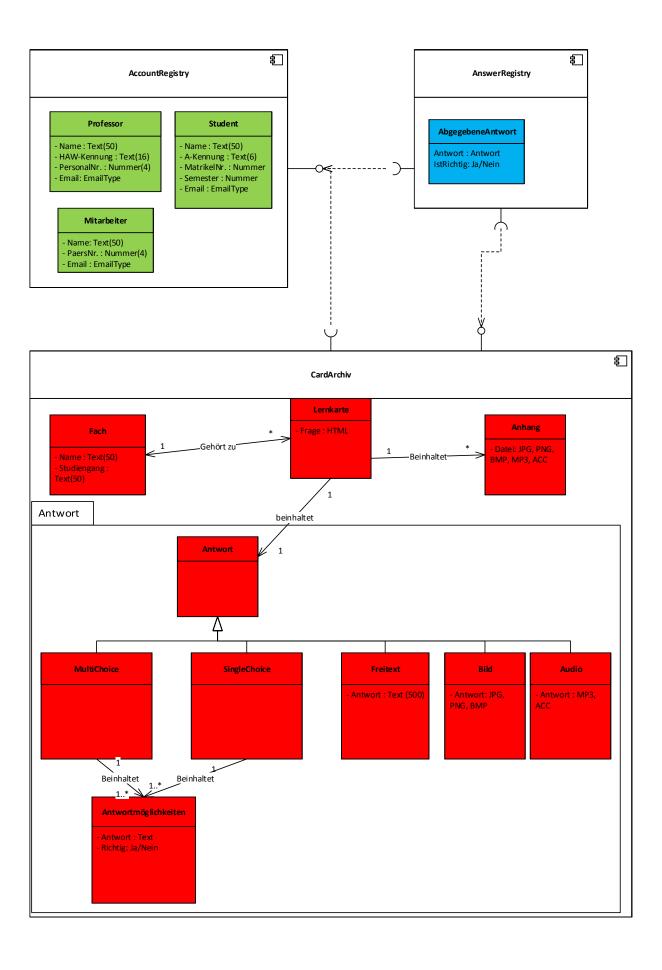


AccountComponent: Diese fasst die gesamte Benutzerverwaltung zusammen.



```
package se1_aufgabe2.common;
import se1_aufgabe2.accounting.InvalidEmailException;
public class EmailType {
        private final String address;
        public EmailType(String inAddress)
        {
                if(!isValidMailAddress(inAddress))
                       throw new InvalidEmailException();
                this.address = inAddress;
       }
        public String getAddress()
        {
                return this.address;
       }
        public String getDomain()
        {
                return this.address.split("@")[1];
       }
        public String getTopLevelDomain()
        {
                String[] domainSplit = this.getDomain().split("\\.");
                return domainSplit[domainSplit.length - 1];
       }
        public String getUsername()
        {
                return this.address.split("@")[0];
       }
        public static boolean isValidMailAddress(String inAddress)
       {
                return inAddress.matches("[a-z0-9!#$%&'*+/=?^_`{|}~-]+(?:\\.[a-z0-
9!#$%&'*+/=?^_`{|}~-]+)*@(?:[a-z0-9](?:[a-z0-9-]*[a-z0-9])?\\.)+[a-z0-9](?:[a-z0-9-]*[a-z0-9])?");
}
```

```
package se1_aufgabe2;
import se1_aufgabe2.accounting.AccountingRegistry;
import se1_aufgabe2.answers.AnswerRegistry;
import se1_aufgabe2.answers.IAnswerRegistry;
import se1_aufgabe2.cardarchive.CardArchive;
import se1_aufgabe2.cardarchive.ICardArchive;
import se1_aufgabe2.cardarchive.ICardArchive;
public class Main {
    public static void main(String[] args) {
        IAccountingRegistry accounting = new AccountingRegistry();
        ICardArchive cardArchive = new CardArchive(accounting);
        IAnswerRegistry answerRegistry = new AnswerRegistry(accounting, cardArchive);
    }
}
```

```
package se1_aufgabe2.cardarchive;
import java.io.File;
import java.util.ArrayList;
import java.util.Collection;
import java.util.List;
import se1_aufgabe2.accounting.Professor;
import se1_aufgabe2.cardarchive.antwort.Antwort;
import se1_aufgabe2.common.PersistentEntity;
public class Fach implements PersistentEntity {
  private final String name;
  private final List<Lernkarte> lernkarten;
  public Fach(String name){
    this.name = name;
    this.lernkarten = loadFromDB();
  }
  public String getName() {
    return name;
  }
  public Collection<Lernkarte> getLernkarten()
    return null;
  }
  private List<Lernkarte> loadFromDB(){
    //funktion to load
    return new ArrayList<>();
  }
  public <T extends Antwort> void createLernkarte(String frage, T antwort, Professor professor,
ArrayList<File> anhaengeFile){
    ArrayList<Anhang> anhaenge = new ArrayList<>();
    for (File f: anhaengeFile){
      anhaenge.add(new Anhang(f));
    }
    getLernkarten().add(new Lernkarte<>(frage, professor, antwort, anhaenge, this));
  }
```