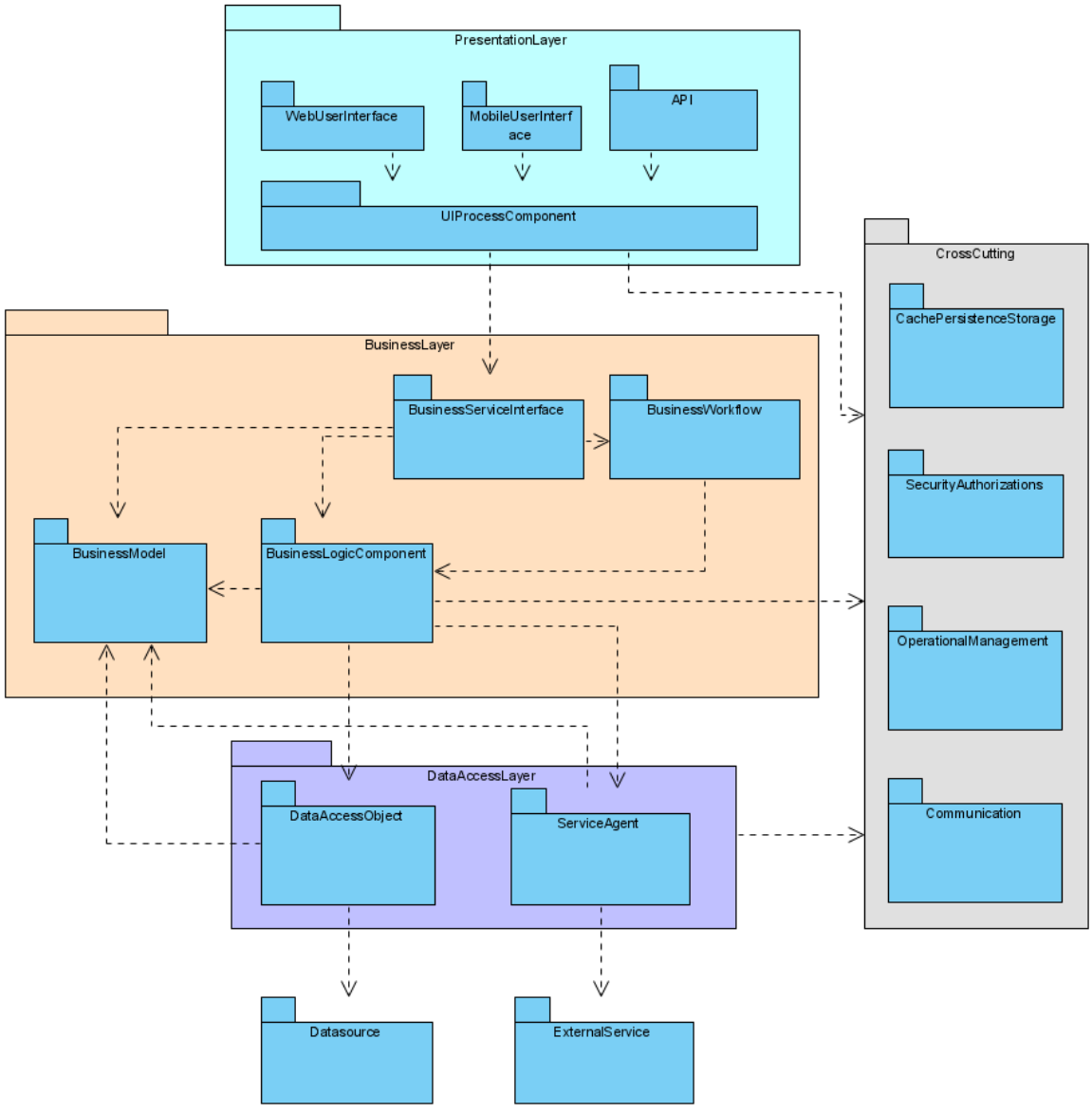
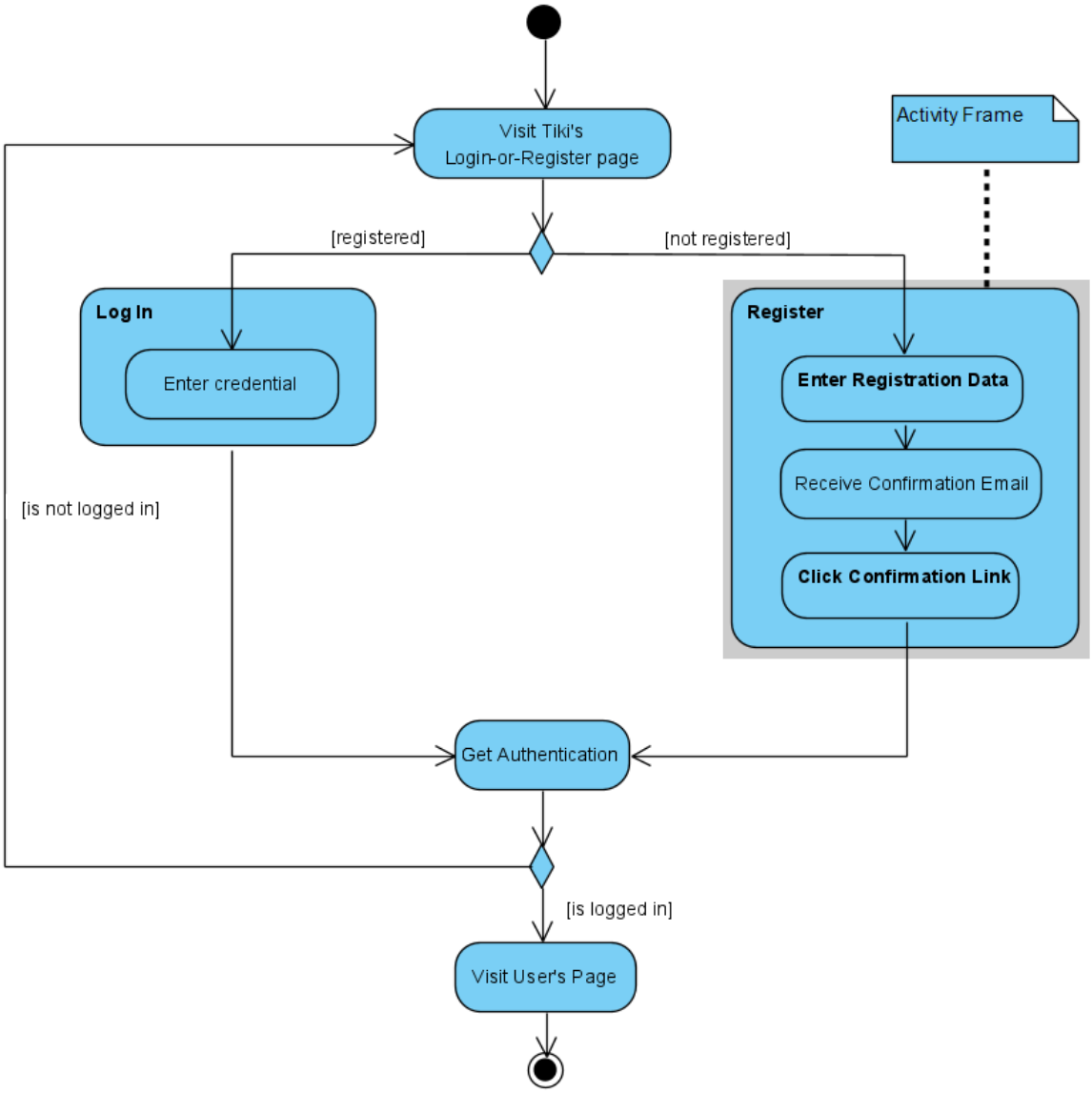
Assignment 2

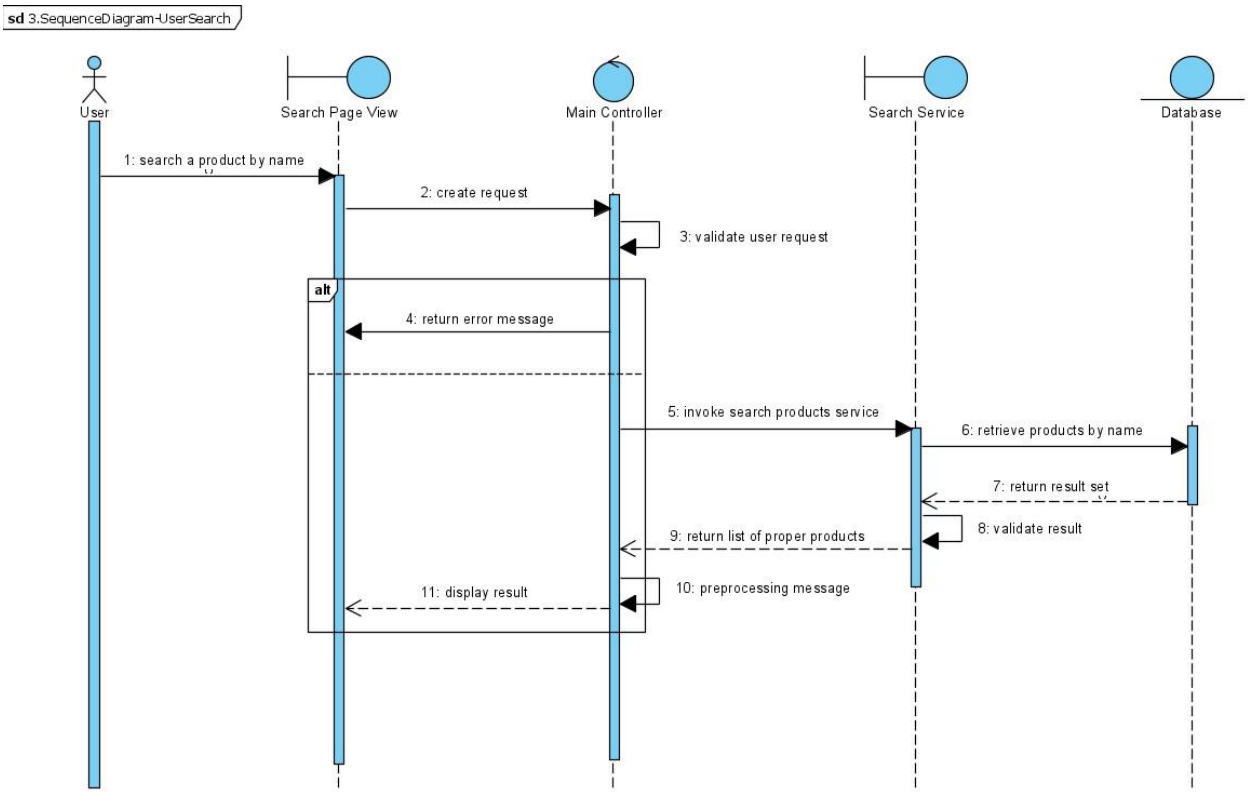
1. Constructing architecture of the system



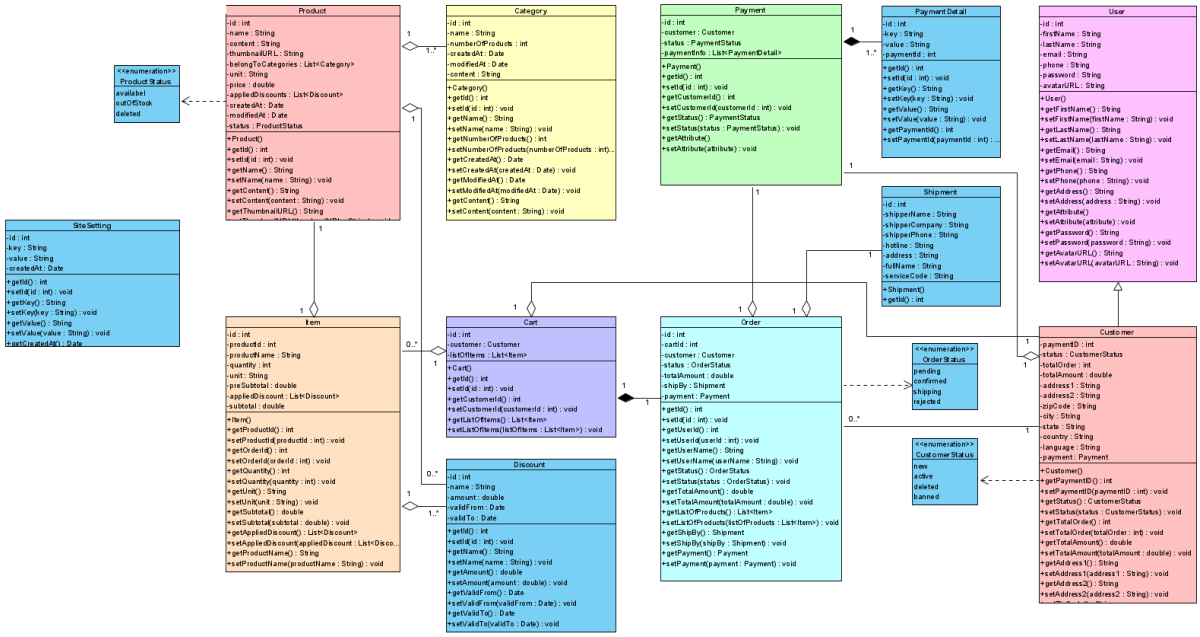
2. Constructing activity diagrams



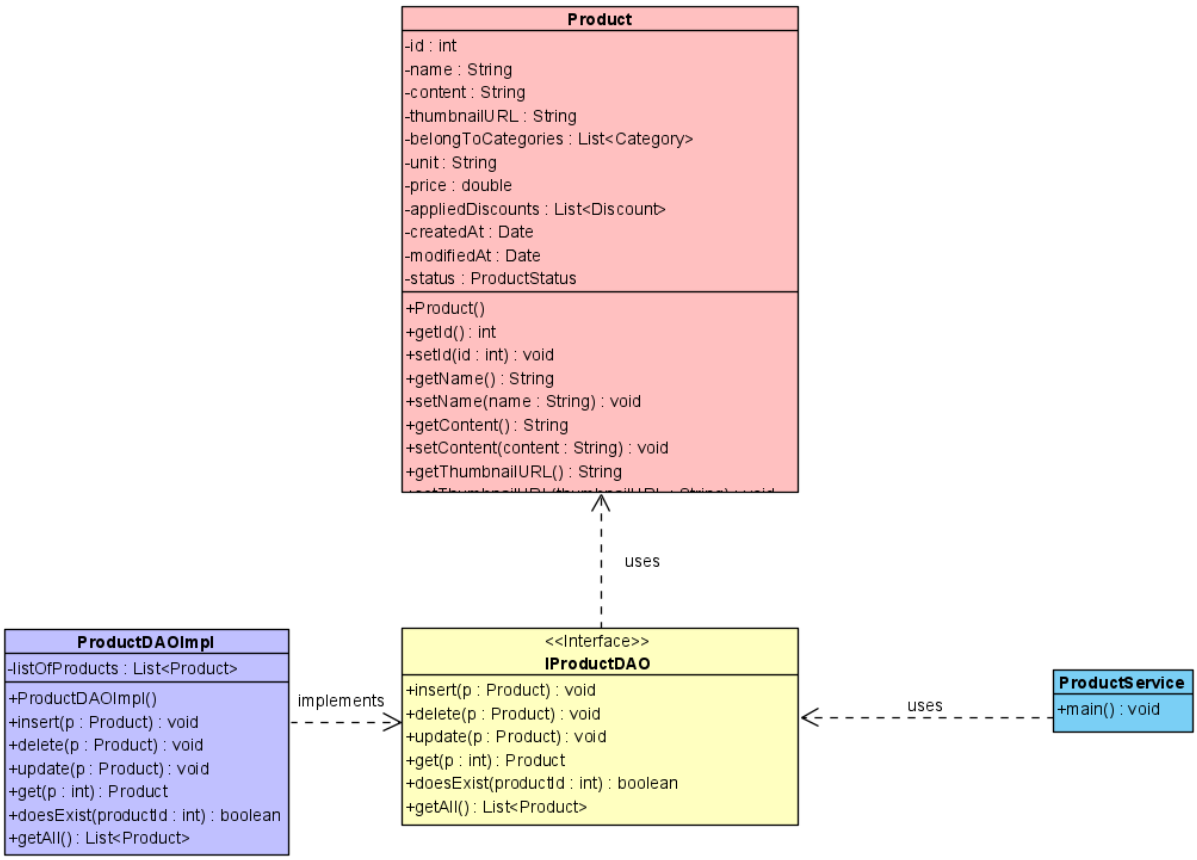
3. Constructing sequence diagrams



4. Constructing class diagram



5. Using pattern DAO for designing classes



6. Coding some class with pattern

```
package DataAccessLayer.DataAccessObject;

public interface IProductDAO {

        /**
         *
         * @param p
         */
        void insert(Product p);

        /**
```

```
         *
         * @param p
         */
        void delete(Product p);

        /**
         *
         * @param p
         */
        void update(Product p);

        /**
         *
         * @param p
         */
        Product get(int p);

        /**
         *
         * @param productId
         */
        boolean doesExist(int productId);

        List<Product> getAll();

}



package DataAccessLayer.DataAccessObject;

public class ProductDAOImpl {

        private List<Product> listOfProducts;

        public ProductDAOImpl() {
                // TODO - implement ProductDAOImpl.ProductDAOImpl
                throw new UnsupportedOperationException();
        }

        /**
         *
         * @param p
         */
        public void insert(Product p) {
```

```
            // TODO - implement ProductDAOImpl.insert
            throw new UnsupportedOperationException();
        }

        /**
         *
         * @param p
         */
        public void delete(Product p) {
            // TODO - implement ProductDAOImpl.delete
            throw new UnsupportedOperationException();
        }

        /**
         *
         * @param p
         */
        public void update(Product p) {
            // TODO - implement ProductDAOImpl.update
            throw new UnsupportedOperationException();
        }

        /**
         *
         * @param p
         */
        public Product get(int p) {
            // TODO - implement ProductDAOImpl.get
            throw new UnsupportedOperationException();
        }

        /**
         *
         * @param productId
         */
        public boolean doesExist(int productId) {
            // TODO - implement ProductDAOImpl.doesExist
            throw new UnsupportedOperationException();
        }

        public List<Product> getAll() {
            // TODO - implement ProductDAOImpl.getAll
            throw new UnsupportedOperationException();
        }

}
```

```java
package DataAccessLayer.DataAccessObject;

public class ProductService {

	public void main() {
		// TODO - implement ProductService.main
		throw new UnsupportedOperationException();
	}

}
```