Project managing schedule

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| --- | --- | --- |
| **Process** | **Date** | **Time taken (in hours)** |
| Planning | Oct 27 | 1 |
| Oct 28 | 2 |
| Design | Oct 30 | 1 |
| Nov 2 | 2 |
| Nov 3 | 2 |
| Research | Nov 4 | 4 |
| Nov 6 | 2 |
| Nov 7 | 3 |
| Development 1 | Nov 9 | 3 |
| Nov 10 | 4 |
| Nov 11 | 3 |
| Nov 13 | 2 |
| Testing | Nov 13 | 2 |
| Development 2 | Nov 15 | 3 |
| Nov 16 | 2 |
| Documentation | Nov 17 | 2 |
| Nov 18 | 1 |

Stages of Development

**Planning** includes

1. Project schedule
2. Functional requirements
3. Software requirements

**Design** includes

1. Database design
2. UI design
3. Software architecture

**Research** includes

1. Gaining knowledge of required software (MS Access and JDBC)
2. Gaining knowledge of their interaction with each other

**Development part 1** includes creating the product according to the design

**Testing** includes checking if all requirements have been satisfied

**Development part 2** includes developing fixing all bugs found in initial testing part and simultaneous testing of bug fixes

**Documentation**

Problem Specification

The coupon inventory system provides the user with an interactive way to manage their existing coupons. It displays the days remaining for the coupon to expire so the user is always aware of the coupon status. Once the coupon has been redeemed or expired, the status changes automatically and this is visible to the user as soon as he/she logs in to their account.

The app also gives the user the option to add more coupons to their existing list either providing the details of the coupon manually or through a data file. A global list of coupons is also available for users to buy from and automatically gets added to their existing list.

Finding a coupon from a list can be difficult. So, the app also provides an option to search for any coupon or can also sort the coupons in any order and using any field.

The user interface of the app is very easy for anyone to use with minimal buttons which takes care of all the required features.

Software specification

Following are the features that are available in the coupon inventory system:

1. Creating new account
2. Listing of existing coupons
3. Display of duration of expiration
4. Status of coupon(unused/redeemed/expired)
5. Search for coupon using any field
6. Sort coupons on any field
7. Add new coupons using a data file or
8. Add coupons manually
9. List of global coupons available for purchase
10. Attractive user interface

Design Diagram

UML diagram has been attached separately but in same folder(UML.png).