Why is the project important ?

* Lots of potential users (basically every shop can benefit from this)
* Random costumers can benefit from the creation of this app (from discounts or deals)
* The purchase of items gets easier (just 1 click away)
* Less queues in shops

Break down the project

* Project will concentrate on the following functionalities
* **Front end part**
* Java Web used to create the website

**Database part**

* MySQL for a DB of customers
* Different DB will store a list of items

**Backend + testing**

* App developed in java will predict what items could be listed as Top Priority (or most frequently used by this costumer)
* Testing algorithm will be used to “Teach” a prototype costumer (show his most frequently used products by this costumer)

**Server part**

Will connect the backend part and the front end part

* Java sockets will establish the connection between the two ends

**Tasks**

**Basically create a tree diagram for the things listed above !!**

**Risks**

* The testing algorithm will be time consuming and its results may not be accurate
* Start learning about testing which will be used to educate the user
* **Protection of data may consume time in additional reading**

**Milestones**

* **The mentioned in the deadlines for each deliverable**
* **Before the prototype part have a smaller prototype internal milestone just for half of its functionalities**
* **Before the final presentation have smaller protoype internal milestone to cover 75% of the functionalities**

**Tasks**

* **Duration til the first prototype**

**Front end part (1 week)**

**Back end (cover functionalities for Login + Main menu**

**Connection to the database (1 week thread server + server.java)**

**Design+Database (2 WEEKS to create user DB+Shop DB)**

**Creation -> 1 week**

**Design - > 1 week**

**Testing -> 2 weeks**

**Develop the same parts til the rest of the time til I graduate**

**Literature survey (5 days)**

* **Testing books**
* **Security books (encryption of data)**
* **Some different programs and see what functionalities I can use**
* **Read reviews of different programs**

**Literature review (5 days)**

**Sequence of activities**

1. **Create the basic DB for users**
2. **Create welcome page**
3. **Create a login page**
4. **Connect to the server part (where the db is connected to thread server)**
5. **Create a simple menu to list the functionalities to the user**
6. **Add more functionalities til the final requirement is reached**

**Produce a gant chart for the duration of the different parts considering the given milestones**