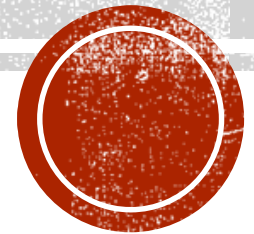


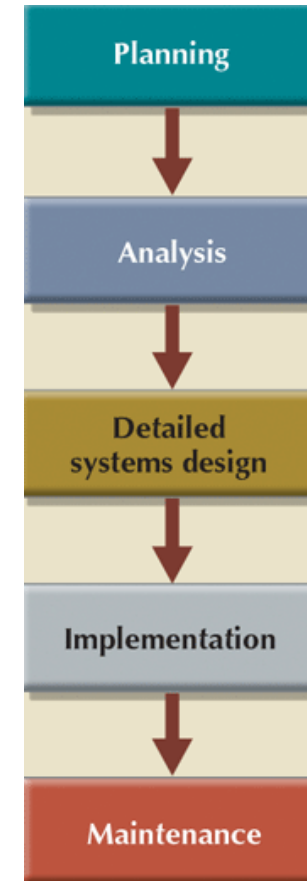
FINAL ASSIGNMENT



PROJECT PROPOSAL

George wants to start his own business by selling stuff online. So he needs a website that has the following functionalities:

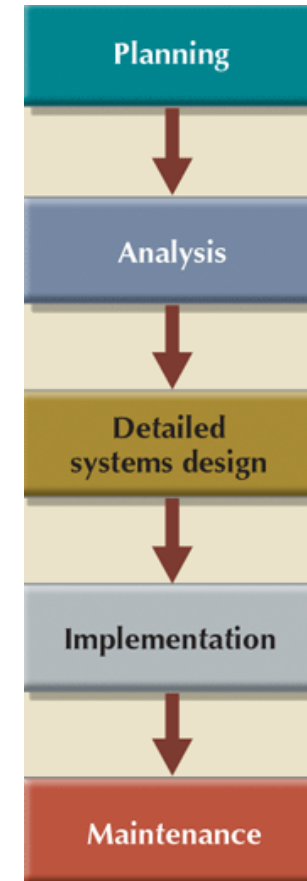
- User registration
- User account
 - Shopping cart
 - Shopping history
 - Wish list
- Stock management
- Recommender systems
- Monthly/Quarterly/Annually revenue report



PROJECT PROPOSAL

George wants to start his own business by selling stuff online. So he needs a website that has the following functionalities:

- User registration
- User account
 - Shopping cart
 - Shopping history
 - Wish list (optional)
- Stock management (optional, partial)
- ~~▪ Recommender systems~~
- ~~Monthly/Quarterly/Annually~~ revenue report



ENTITIES

- User/Customer
- Item
- Order/Transaction
- Shopping cart

BUSINESS RULES/LOGICS

- A customer is associated with one user account.
- A customer must have a user account to place an order.
- A customer can place many orders.
- An order can include many items.
- An order can have only one order number.
- An item is associated with one price at any one given time.
- An item in an order can be purchased in multiple quantities.
- An item must be placed into a shopping cart before it can be placed into an order.
- An order can only be delivered/dispatched to one postal address.
- A customer must have a user account to be able to use the shopping cart.
- A customer can have one shopping cart at a time.
- A customer's shopping cart can include many items.
- Each item in the shopping cart can have multiple quantities.

BUSINESS RULES/LOGICS (OPTIONAL)

- An item can have multiple quantities in stock.
- An item must be in stock before it can be placed into a shopping cart.
- An item must be in stock before it can be placed into an order.

MONTHLY REPORT (OPTIONAL)

- Monthly report should include
 - Revenue
 - Average spending per order
 - Top 3 popular items bought
 - Number of new registration
- Use database view to implement this!!
- View report from previous month.

DELIVERABLES

- 40% {
 - An ER diagram in PDF format.
 - .mwb file for your ER model.
 - Export ER model from workbench as an .mwb file.
- 60% ▪ Dump file for the structure and data of your schema.
- Optional/additional features with correct implementation will be awarded as bonus points towards your final score for the semester. (up to 5 points)
- Make sure your name your schema in the following format:
 - db_<student_number>, replace <student_number> with your student number.
 - For example, db_108435999
- Due date: 2019 June 20th, 23:59.

