WBL 2 PRESENTATION

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GREENWICH BUTCHERS REQUIREMENTS

- It is vitally important to understand the requirements of a project before proceeding with work.
- Doing this will not only please the client, but will also streamline the workload for any project.
- Requirements for Greenwich Butchers are as follows.

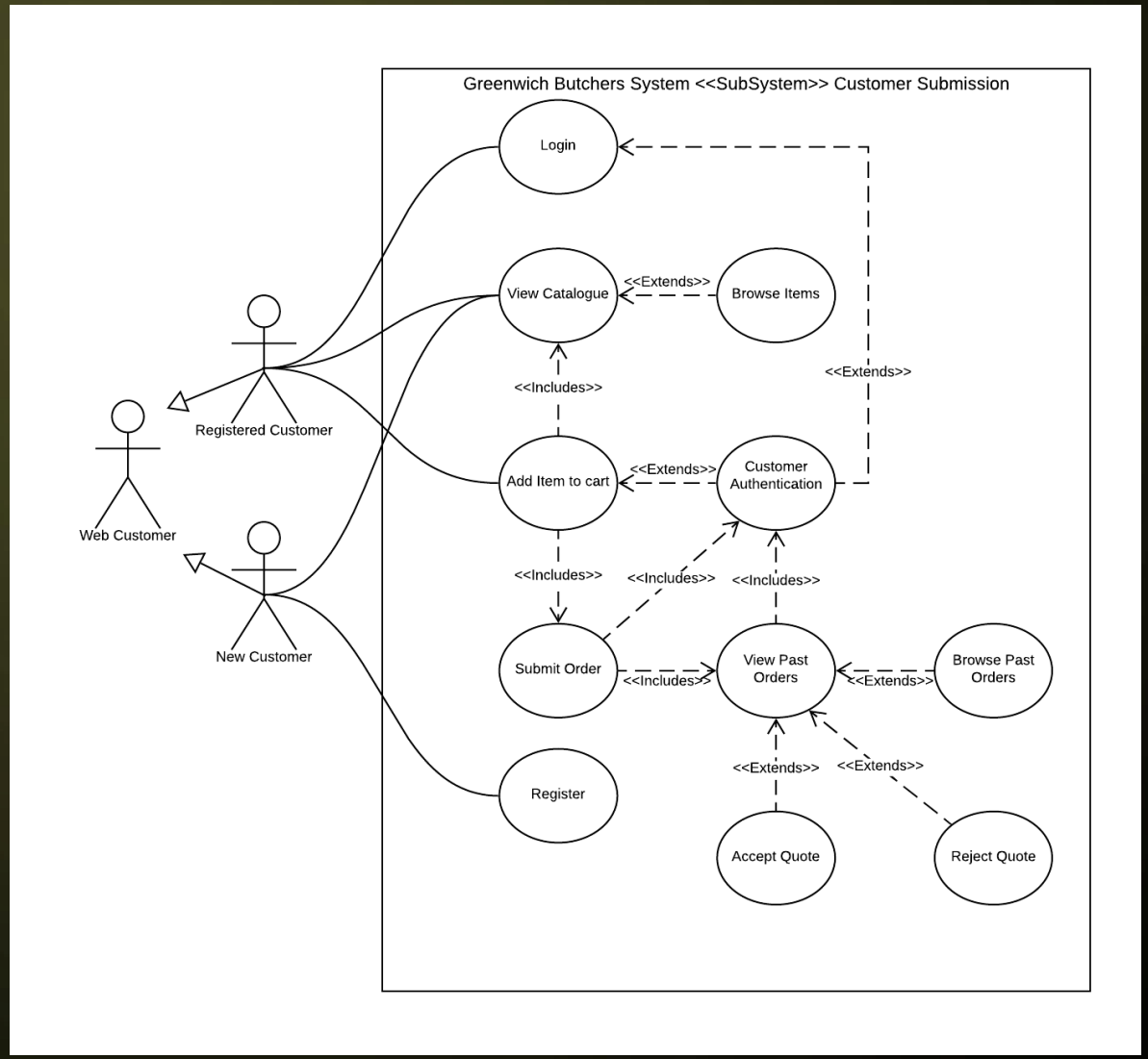
MAIN REQUIREMENTS

- Display Products
- Layered security (Customer/Employee)
- Customer Registration
- Login
- Create Orders
- Employee able to add/modify
  - Customer Details
  - Order Details
  - Stock Details
- Employee Registration
- Any user can edit their own details can edit their details.
- Employees have 2 levels of security
  - Super Admin (Manager)
  - Admin (Staff)
- Super Administrator or a Manager able to add/edit/delete.
  - Supplier Details
  - Categories
  - Products
  - New Administrators

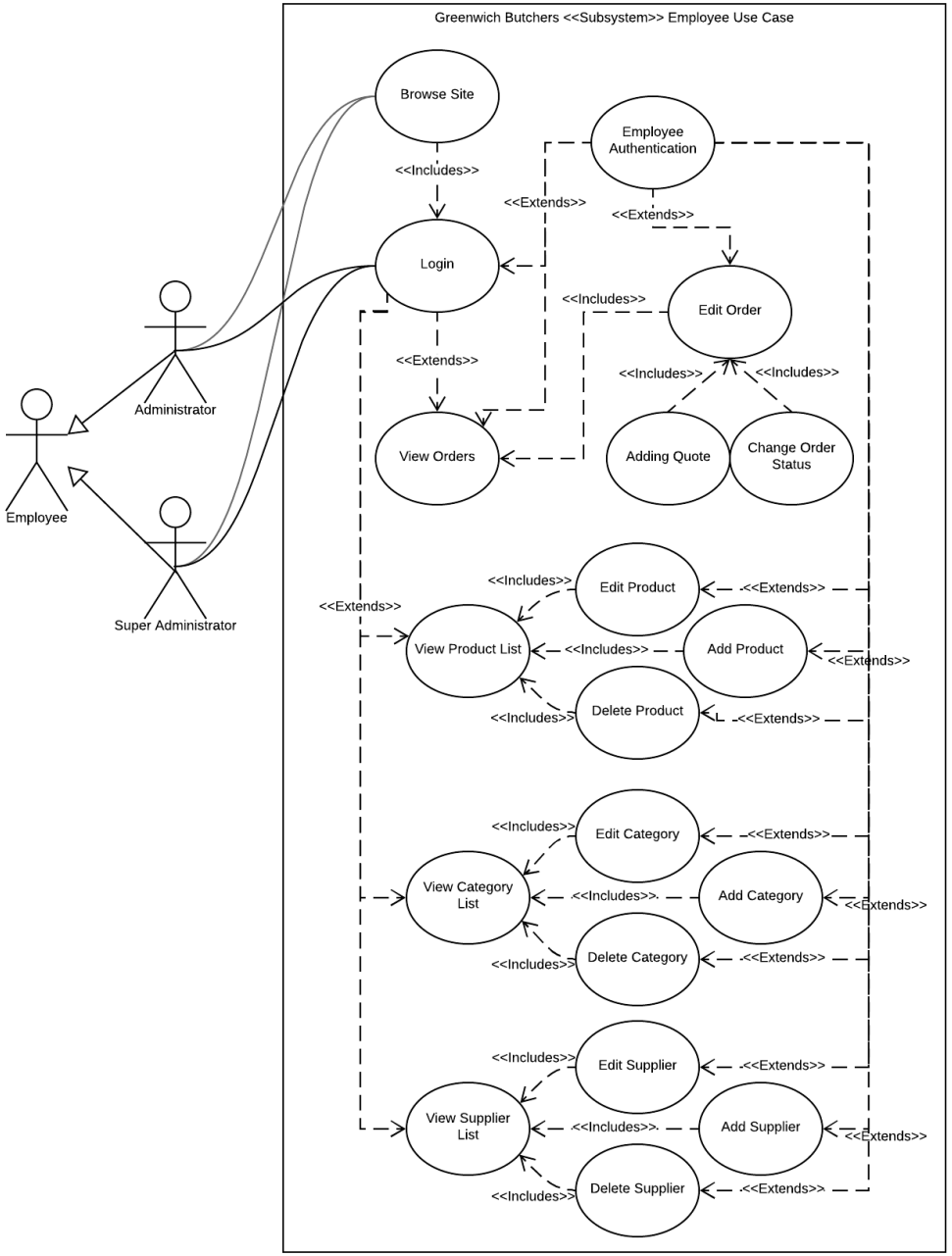
ANALYSIS AND DESIGN USING ERD AND UML

- Entity Relationship Diagrams (ERD) are important for database design
- ERDs will speed up the process of creating a correctly functioning database.
- Unified Modelling Language (UML) is a tool to extend core concepts of a project

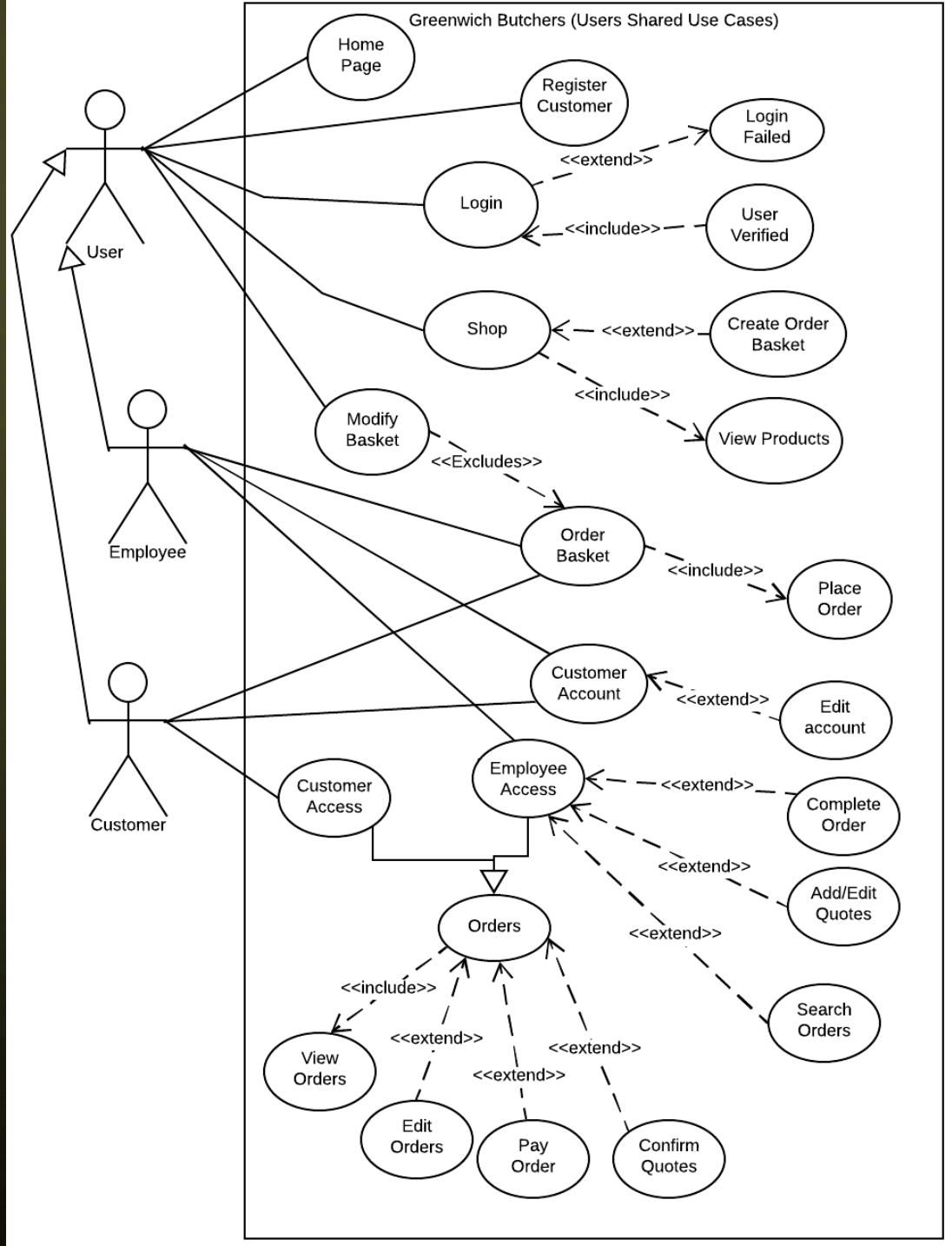
CUSTOMER USE CASE (UML)



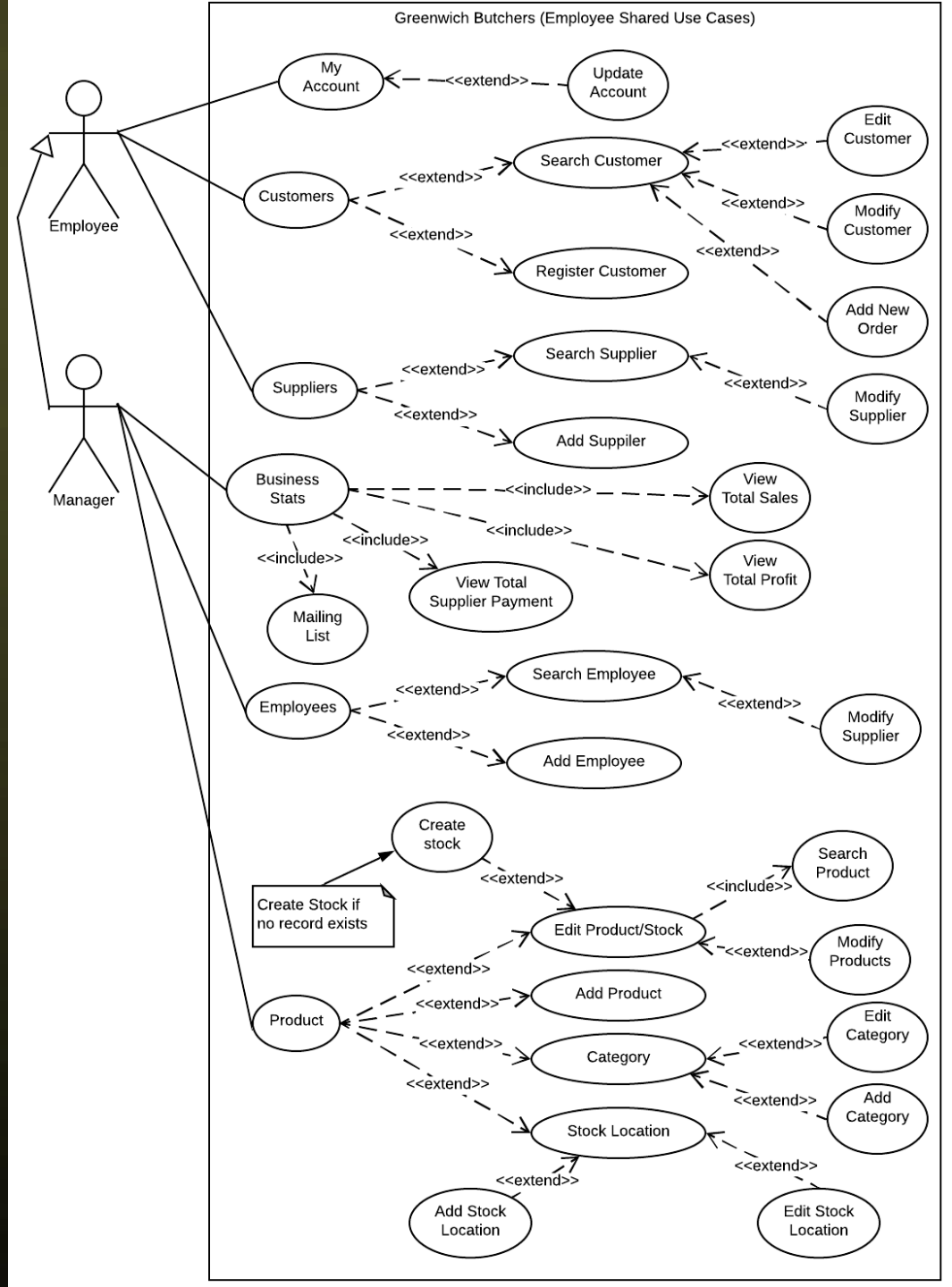
EMPLOYEE USE CASE (UML)

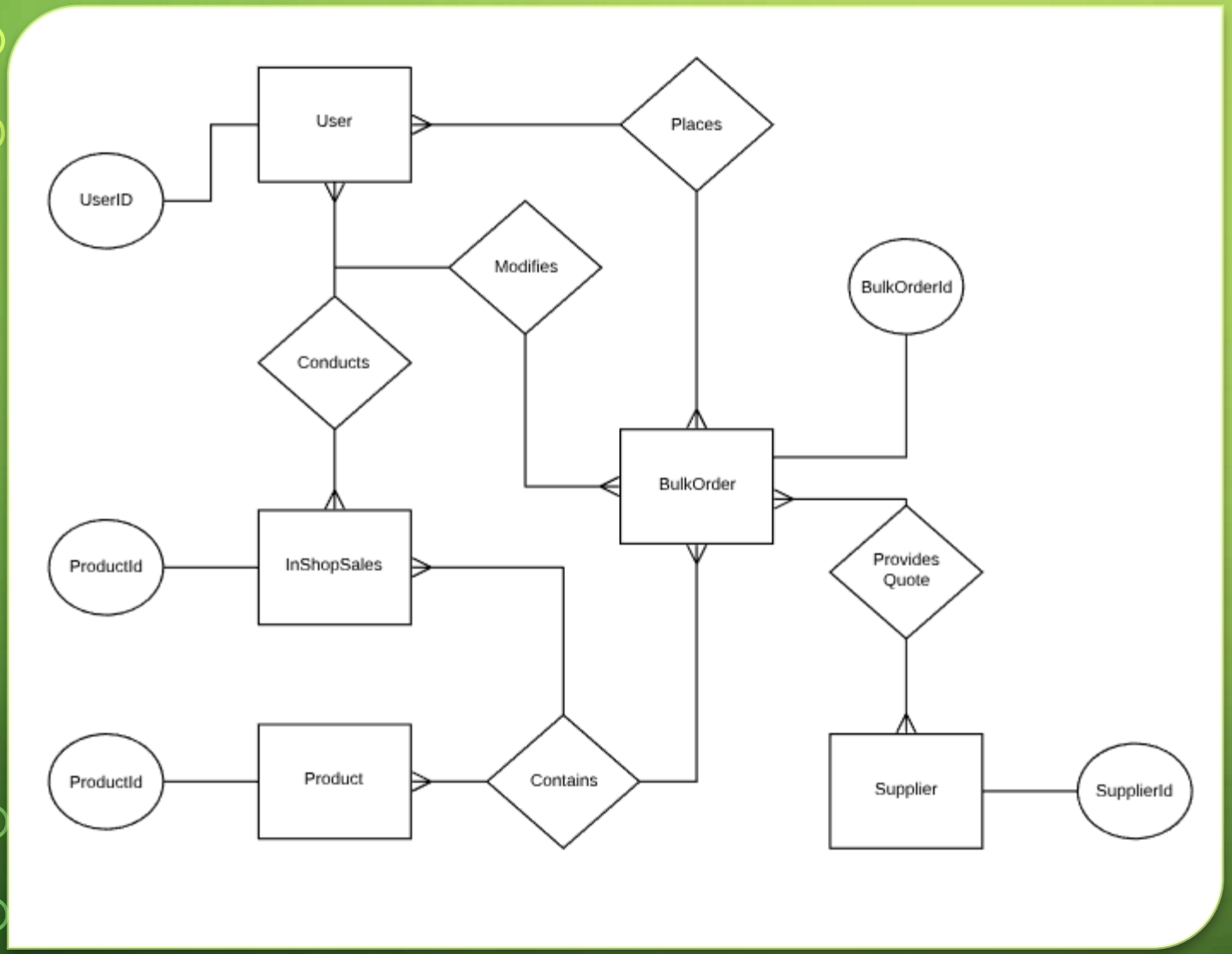


USERS SHARED USE CASE



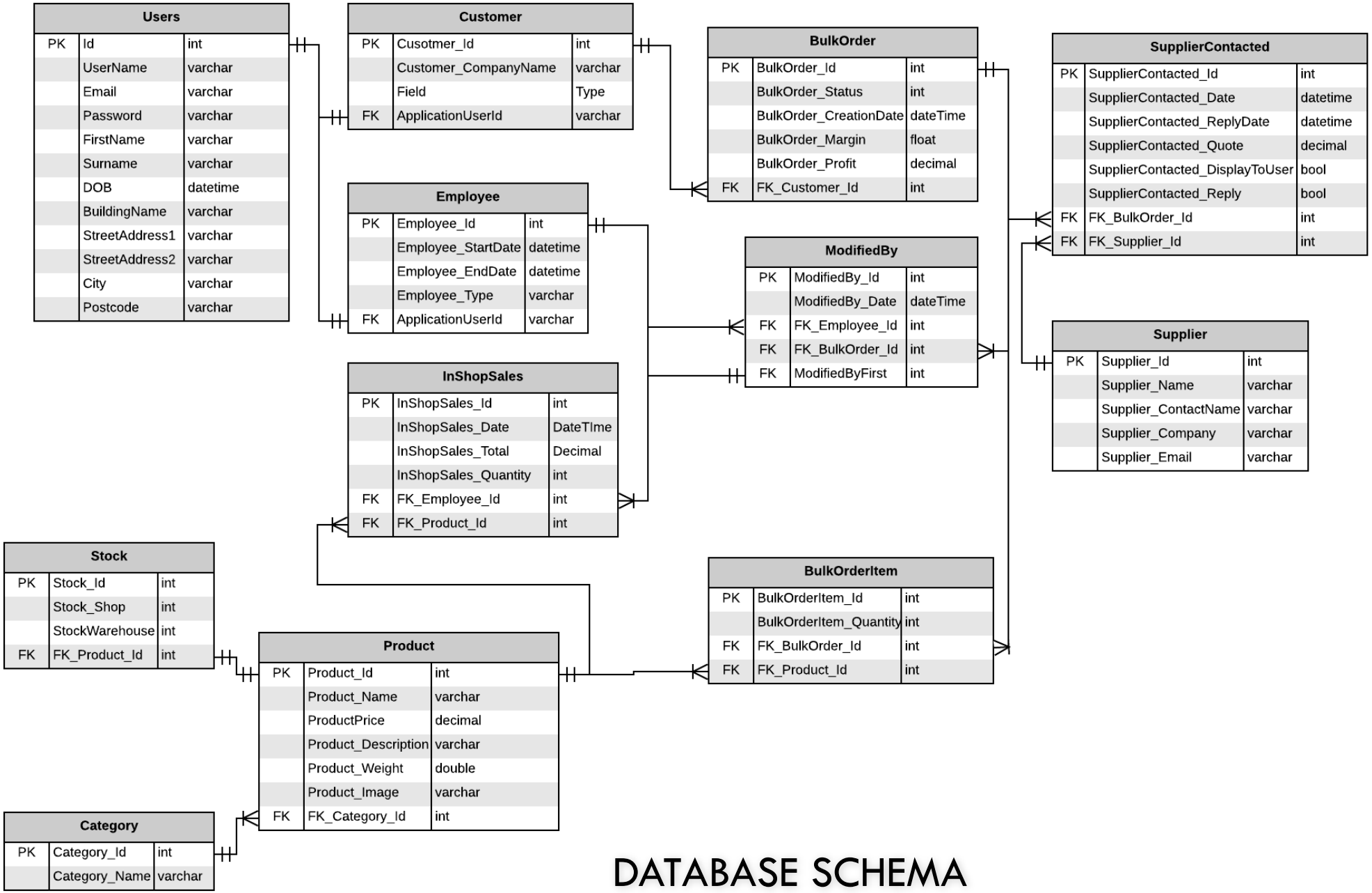
EMPLOYEE SHARED USE CASES



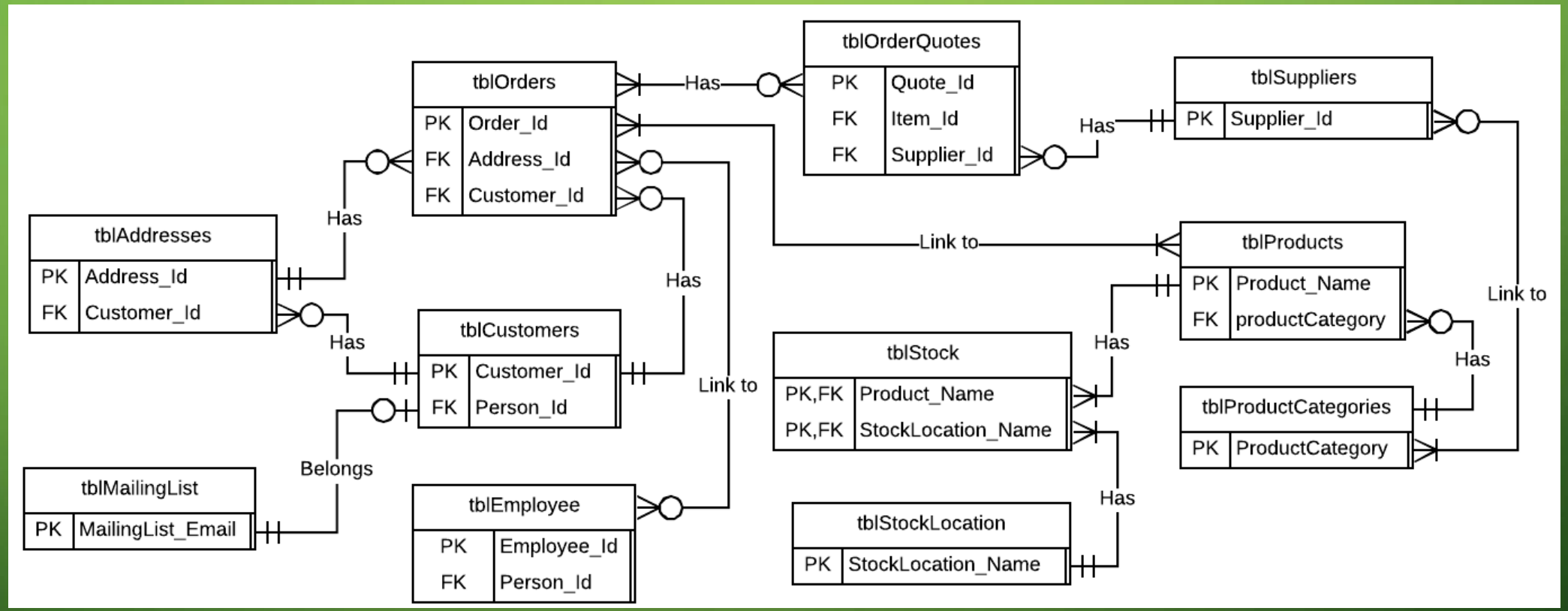


CONCEPTUAL ERD

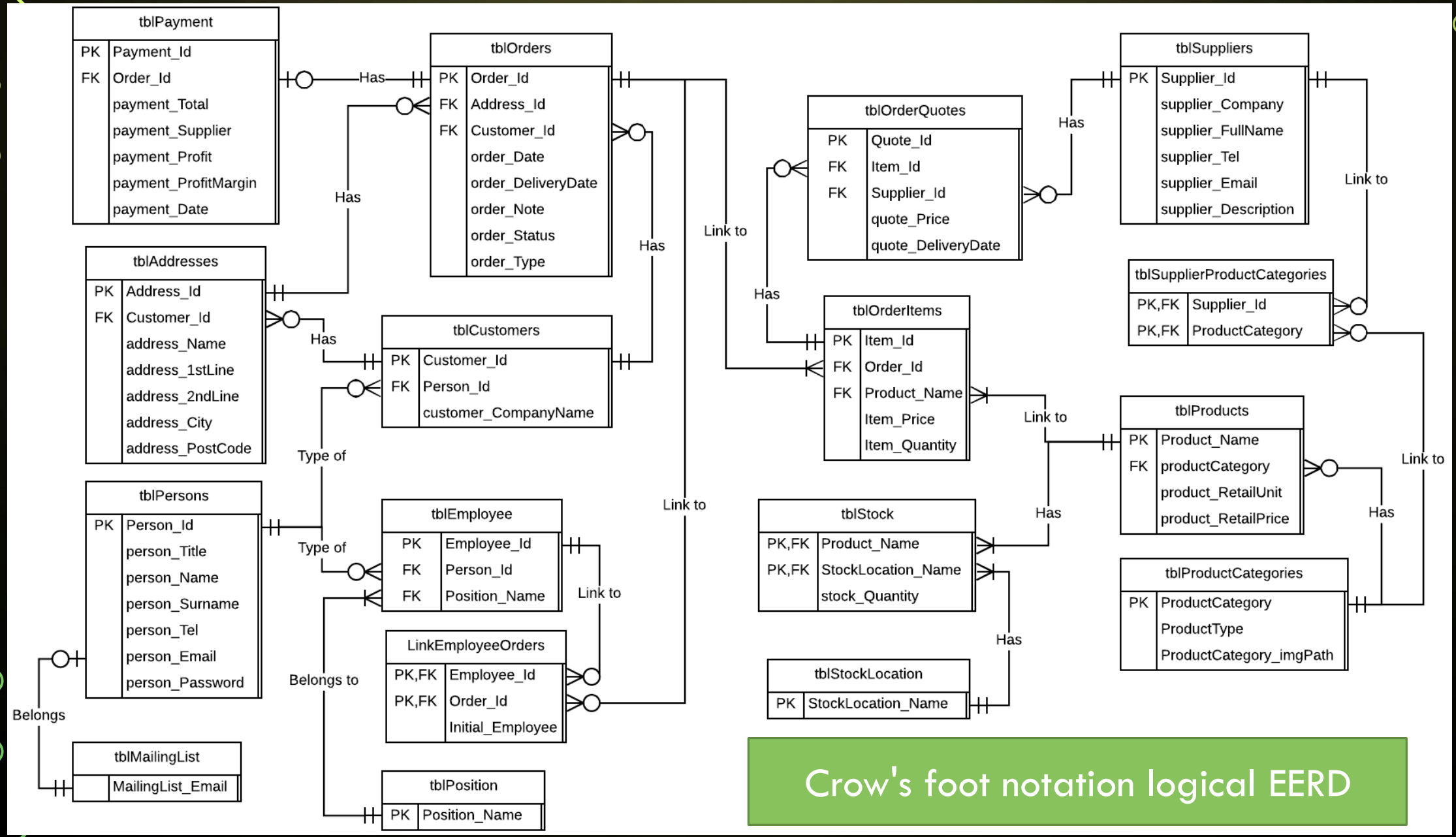
- Conceptual ERD shows the main entities and the relationships between them.
- Conceptual ERD will only have the primary key attribute that identifies them
- Many-to-Many relationships are present.



DATABASE SCHEMA



Crow's foot notation Conceptual ERD



Crow's foot notation logical EERD

LESSONS LEARNT

- Greater understanding on creating ERD/EERD and UML diagrams
- Designing and implementing complex databases using ERD and UML
- Enhancing our understanding of OOP specifically C#
- Implementing specific libraries in C# such as EF Identity and Razor pages
- Applying MVC Model to C# programming
- Deeper understanding of frontend programming languages such as JavaScript, CSS and corresponding framework components like Bootstrap and jQuery

Weekly reviews

Date	Task	Comment
Week 1 (17/11/2018 to 23/11/2018)	Research/ Study	I have studied the coursework scenario and partially completed the research topic one (software tools).
Week 2 (24/11/2018 to 30/11/2018)	Research/ Study	Completing the research topic one and begin the research topic two
Week 3 (01/12/2018 to 7/12/2018)	Research/Study	Continuing research topic two
Week 4 (8/12/2018 to 14/12/2018)	Research/ Requirement analysis	Completed research topic two and begun the requirement analysis by completing the initial assumptions list
Week 5 (15/12/2018 to 12/12/2018)	Requirement analysis	Writing the background information, problem statement
Week (22/12/2018 to 28/12/2018)	N/A	Christmas Holidays
Week 7 (29/12/2018 to 4/1/2019)	N/A	New Year's holiday
Week 8 (5/1/2019 to 11/1/2019)	N/A	I was progressing on other coursework
Week 9 (12/1/2019 to 18/1/2019)	Requirement analysis	Writing the environment and system models, functional and non-functional requirement. Also started with the creating the use-case diagrams
Week (19/1/2019 to 25/1/2019)	Requirement analysis	Creating the conceptual model and logical models
Week 11 (26/1/2019 to 1/2/2019)	Requirement analysis	Continued work with ERD diagrams and began working on the data dictionary.
Week 12 (2/2/2019 to 8/2/2019)	N/A	I was progressing on other coursework
Week 13 (9/2/2019 to 15/2/2019)	Implementing project	Creating the database and queries
Week 14 (16/2/2019 to 22/2/2019)	Implementing project	Creating and testing queries
Week 15 (23/2/2019 to 1/3/2019)	Implementing project	Implementing the frontend pages for customer
Week 16 (2/3/2019 to 8/3/2019)	Implementing project	Implementing the frontend pages for employees
Week 17 (9/3/2019 to 15/3/2019)	Implementing project	Implementing the models and business logics
Week 18 (16/3/2019 to 22/3/2019)	Implementing project	Implementing the models and business logics
Week 19 (23/3/2019 to 29/3/2019)	Implementing project	Implementing the models and business logics
Week 20 (30/3/2019 to 5/4/2019)	Testing	Whitebox testing the project
Week 21 (6/4/2019 to 11/4/2019)	Testing	Whitebox testing the project
Week 22 (12/4/2019 to 18/4/2019)	Writing report	Writing evaluation, executive summary and proof reading the report.