A close up of a logo

Description automatically generated

Second Year

2022 / 2023

Capstone Design Project

|  |  |
| --- | --- |
| Name | Section |
| Yousef Ellban | 4 |
| Nourhan Khaled | 4 |
| Nada Ahmed | 4 |
| Wahid ali | 4 |

|  |  |
| --- | --- |
| **Issue** | **Mark** |
| Project Identification |  |
| System Request |  |
| Feasibility Study |  |
| Task Identification |  |
| Pert Chart |  |
| Gantt Chart |  |
| Interview |  |
| Questionnaire |  |
| Context Diagram -- DFD |  |
| Level-0 Diagram -- DFD |  |
| Level-1 Diagram – DFD |  |
| Process Specification |  |
| Data Dictionary |  |
| Normalization |  |
| Entity-Relationship Diagram |  |

**Project Identification**

Project Name:

Blue-lock

Short Description about project:

This project aims to develop express means of delivery to be available in a safe technological way for more than one person... The project aims to create a small community to help young people move around the city and its various streets in an organized, modern, safe way and organize traffic to reach the target destination quickly.

**System Request**

Project sponsor:

Blue-lock organization

Business needs:

1. Environmental pollution problems caused by car exhausts to increase overpopulation.
2. Because it is difficult to cross distances in some areas on foot.
3. Difficulty obtaining means of transportation.
4. The problem of petroleum products

Business requirement:

1. Provide a safe and easy way to moving.
2. Safe a lot of money.
3. Reliance on renewable energy

Business value

1. 10% increasing of Environmental pollution at lest
2. Saving a lot of time
3. Saving a lot of money

Special Issues or Constraints

1. Deadline before final exam
2. Provide security for customers information

**Feasibility Study**

Technical Feasibility

Can we build it or not ?

1. Familiarity with applications:

We have experiences and skills that make us to do it

1. Familiarity with technology:

We have :

1. Programmers
2. Designers
3. We can work with various databases
4. We can manage all TECH problems
5. Project size:

Our project size is medium

Economic Feasibility

1. System cost :
   1. Developer cost -> $5.000
   2. Designing system -> $2.000
2. Annual operating cost is :

For software company:

1. Developing cost -> $100.000

For organization:

1. Sentral data server -> $50.000
2. Technical fixing motors ->$10.000
3. Annual benefits:
   1. Annual benefits =(Total benefits in year)-(system cost + annual operating cost)

Annual benefits =( $500.000 )-($7.000 + $160.000)=$323.000

Organizational Feasibility

For sponsor :

1. Admins
2. Organization customers
3. Organization Technical support

For services :

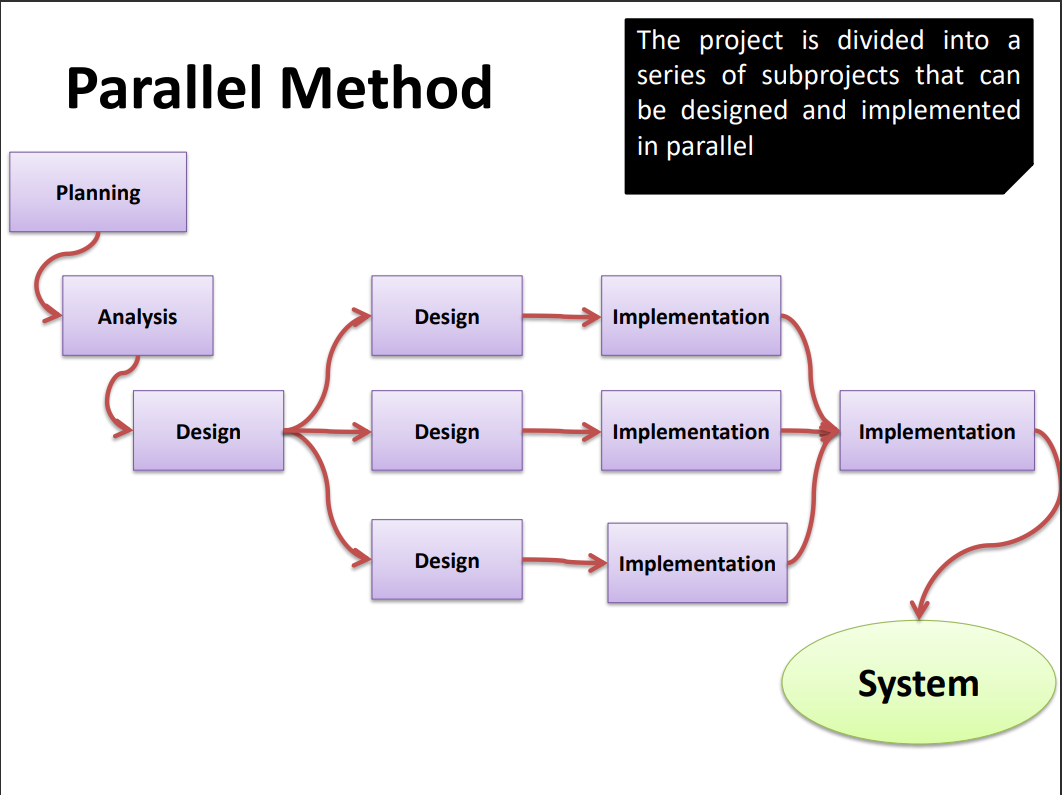
1. Students
2. Normal people
3. Any one not have a mode of transport
4. For fun

**Methodology**

**Why we chosen this method?**

**Because we have been finished the planning and analysis phases**

**And in this method we can manage all debug one by one and over control at all system**

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**Time Estimation**

**We may take around 100 days for finished**

**1-Planning 🡪 15% (15 Days)**

**2-Analysis 🡪35% (35 Days)**

**3-Desigen 🡪50% (50 days)**

|  |  |
| --- | --- |
| Project planning and description | Name of Task |
| ‏10‏/03‏/2023 | Start Date |
| ‏07‏/03‏/2023 | End Date |
| Yousef mohammed , Nada ahmed, Nourhan khaled , Wahid ali | Person assigned to task |
| High | Priority |
| MS word | Resources Needed |
| 7 Days | Estimated Time |
| 3 Days | Actual Time |

|  |  |
| --- | --- |
| System request | Name of Task |
| 2023/3/3 | Start Date |
| 2023/3/7 | End Date |
| Wahid ali , Nourhan khaled | Person assigned to task |
| High | Priority |
| MS word | Resources Needed |
| 5 Days | Estimated Time |
| 1 Day | Actual Time |

|  |  |
| --- | --- |
| Feasibility study | Name of Task |
| 2023/3/4 | Start Date |
| 2023/3/7 | End Date |
| Wahid ali | Person assigned to task |
| High | Priority |
| MS word | Resources Needed |
| 3 Days | Estimated Time |
| 3 Days | Actual Time |

|  |  |
| --- | --- |
| Methodology | Name of Task |
| 2023/3/1 | Start Date |
| 2023/3/6 | End Date |
| Nourhan Khaled | Person assigned to task |
| High | Priority |
| Methodology & MS word | Resources Needed |
| 6 Days | Estimated Time |
| 3 Days | Actual Time |

|  |  |
| --- | --- |
| Pert chart | Name of Task |
| 20230/3/5 | Start Date |
| 2023/3/7 | End Date |
| Nada ahmed | Person assigned to task |
| Medium | Priority |
| MS word | Resources Needed |
| 2 Days | Estimated Time |
| 2 Days | Actual Time |

|  |  |
| --- | --- |
| Gant chart | Name of Task |
| 2023/3/5 | Start Date |
| 2023/3/7 | End Date |
| Yousef mohammed | Person assigned to task |
| Medium | Priority |
| MS word & Gant chart maker | Resources Needed |
| 2 Days | Estimated Time |
| 2 Days | Actual Time |

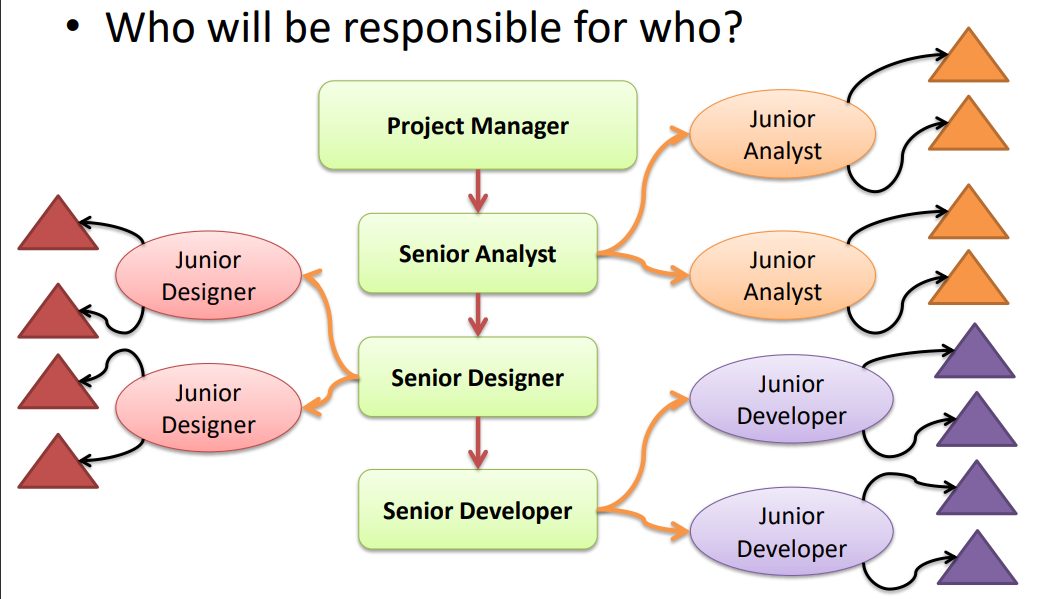
**Pert Chart**

|  |  |  |  |
| --- | --- | --- | --- |
| **Activity** | **Description** | **Predecessors** | **Duration** |
| A | Project planning and description | \_ | 3 |
| B | System request | \_ | 1 |
| C | Feasibility study | B | 3 |
| D | Methodology | C | 3 |
| E | Time Estimation | \_ | 1 |
| F | Scope Management | E | 2 |
| G | Interview | C | 1 |

**Gantt chart**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Task Name | Start time | End time | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |  |  |
| A | Project planning &Description | 2023/3/1 | 2023/3/7 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| B | System request | 2023/3/3 | 2023/3/7 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C | Feasibility study | 2023/3/4 | 2023/3/7 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| D | Methodology | 2023/3/8 | 2023/3/10 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E | Time Estimation | 2023/3/1 | 2023/3/2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| F | Scope Management | 2023/3/2 | 2023/3/3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| G | Interview | 2023/3/10 | 2023/3/11 |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Scope Management**

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**Interview**

**Interview is a method uses to collection useful data and information**

**Planning interview**

1. **Reading background materials**
2. **Determine interview objectives**
3. **Deciding whom to interview**
4. **Preparing the interview**
5. **Deciding on question type and structure**
6. **Closing interview**
7. **Write interview report**

**Interview Report**

**Questionnaire**

**Context Diagram – Data Flow Diagram**

**Diagram 0 – Data Flow Diagram**

**Child Diagram – Data Flow Diagram**

**Process Specification (at least two processes)**

|  |
| --- |
| **Process Specification**  **Number:**  **Name:**  **Description:** |
| **Input Data Flow** |
| **Output Data Flow** |
| **Type of Process**  **Online Batch Manual** |
| **Process Logic:** |
| **Structured English Decision Table Decision Tree** |
| **Unresolved Issues:** |

**Data Dictionary**

**Data Flow (At least three Data Flows needed)**

|  |  |
| --- | --- |
|  | ID |
|  | Label |
|  | Description |
|  | Source |
|  | Destination |
|  | Type |
|  | Data Structure |
|  | Volume/Time |
|  | Comments |

**Normalization**

**Normal Tables**

**Tables after 1NF**

**Tables after 2NF**

**Tables after 3NF**

**Entity Relationship Diagram**