|  |
| --- |
| **PROJECT PLANNING & MANAGEMENT FORM**  **CMSE or CMPE - 405 or 406**  ***NOTE: Leave only correct course code🡪 CMSE 405 or 406 or CMPE 405 or 406***  ***delete other unsuitable parts & also this red message completely!***  **PROJECT NO :**  **PROJECT NAME :**  **PROJECT START DATE :**  **PROJECT END DATE :**  **SUPERVISOR :**  **SEMESTER TERM :**  Project Type: Software Design & Development Project  Template updated: 27.02.2023 |

A.1. Preliminary Project Information

# A.1.1

|  |  |
| --- | --- |
| **Project No** |  |
| **Project Name** |  |
| **Start Date** |  |
| **End Date** |  |
| **Time** |  |

# A.1.2

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Manager** | | | |
| **Name Surname** |  | **ID No** |  |
| **Title/Role** |  | | |
| **Address** |  | | |
| **Phone** |  | | |
| **Email** |  | | |

A.2 Group Information

# A.2.1

|  |  |  |  |
| --- | --- | --- | --- |
| **Student 1** | | | |
| **Name Surname** |  | **ID No** |  |
| **Title/Role** |  | | |
| **Address** |  | | |
| **Phone** |  | | |
| **Email** |  | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Student 2** | | | |
| **Name Surname** |  | **ID No** |  |
| **Title/Role** |  | | |
| **Address** |  | | |
| **Phone** |  | | |
| **Email** |  | | |

# A.2.2

|  |
| --- |
| **List of Completed / Ongoing Projects of Team** |
|  |

B.1 Introduction to Project

# B.1.1

|  |
| --- |
| **Summary of Project** |
|  |

# B.1.2

|  |
| --- |
| **Key Words** |
|  |

# B.1.3

|  |
| --- |
| **Aim of Project** |
|  |

# B.1.4

|  |
| --- |
| **Innovative Aspects/Contributions of Project** |
|  |

# B.1.5

|  |
| --- |
| **Methods to be Applied** |
|  |

# B.1.6

|  |
| --- |
| **Economic and National Outcomes** |
|  |

B.2 Reason of Starting the Project, Methods and R&D Stages

# B.2.1

|  |
| --- |
| **1- Explain the reason of starting this project. (Max 500 charachter)** |
|  |

|  |
| --- |
| **2- Explain the purpose of this project.** |
|  |
| **3- Explain**   * **output of project** * **national / international standards if exist** * **the specific objectives of the project** * **success criterias** * **realistic constraints** |
|  |
| **4- Explain**   * **the methods to be applied during R&D activities** * **applications** * **technics and tools to be used** * **standards to be followed under the workflow** |
| **Which SOFTWARE PROCESS MODEL in below will you apply? Why? How? Explain.**  **\* The waterfall model?**  **\*V-model of software process?**  **\*Evolutionary development?**  **\*Component-based software engineering? Etc.**  **Explain, Project Workflow:**   1. **Feasibility and Pre-research:** 2. **System Design:** 3. **Software development:** 4. **Prototype implementation and testing work:** 5. **Maintenance:** |
| **5- Explain**   * **the contribution of national/international technological development if exist** * **starting a new research and development projects within or outside the team** * **launch new applications or research studies in different technology areas**   **With whom we can cooperate?**  **Expectations:**  **Published work:**  **Can your output be an input for other similar national/international projects?** |
|  |

B.3 Innovative and Unique Aspects

# B.3.1

|  |
| --- |
| **1- Describe**   * **differences** * **advantages** * **superiority**   **compared to other similar projects.** |
|  |

# B.4.1

|  |
| --- |
| **2- Who can contribute to this project in your team?** |
| Example:   * Project Manager * System Designer * ..... |

C.1 Gantt Chart and Work Packages

|  |
| --- |
| C.1.1 Gantt Chart of the planned project is given below. *Paste its JPEG file below.* |

# C.1.2 List of Work Packages

|  |  |
| --- | --- |
| **Work Package No** | 1 |
| **Work Package Name** | **Project Feasibility and Pre-Research (Feasibility Analysis)** |
| **Start-End Date and Time** |  |
| **Related Organizations** |  |

|  |
| --- |
| **1- List the activities of work packages.** |
| **1.1 Project Process and Economic Feasibility:**  **1.2 Technological Feasibility:** |
| **2- Describe the methods and parameters that will be used for work package.** |
|  |
| **3- List the experiments, tests and analysis in the work package.** |
|  |
| **4- List the output of work package and its success criterias.** |
| **Outputs:**  **Success Criterias:** |
| **5- Explain the relation of output with other work packages** |
|  |

|  |  |
| --- | --- |
| **Work Package No** | 2 |
| **Work Package Name** | **Based System Design Technology (Analysis & Design stage)** |
| **Start-End Date and Time** |  |
| **Related Organizations** |  |

|  |
| --- |
| **1- List the activities of work packages.** |
|  |
| **2- Describe the methods and parameters that will be used for work package.** |
|  |
| **3- List the experiments, tests and analysis in the work package.** |
|  |
| **4- List the output of work package and its success criterias.** |
| **Outputs:**  **Success Criterias:** |
| **5- Explain the relation of output with other work packages** |
|  |

|  |  |
| --- | --- |
| **Work Package No** | 3 |
| **Work Package Name** | **Development of System Software (Development Stage)** |
| **Start-End Date and Time** |  |
| **Related Organizations** |  |

|  |
| --- |
| **1- List the activities of work packages.** |
|  |
| **2- Describe the methods and parameters that will be used for work package.** |
|  |
| **3- List the experiments, tests, and analysis in the work package.** |
|  |
| **4- List the output of work package and its success criterias.** |
| **Outputs:**  **Success Criterias:** |
| **5- Explain the relation of output with other work packages** |
|  |

|  |  |
| --- | --- |
| **Work Package No** | 4 |
| **Work Package Name** | **Prototype Implementation and Test Study and Maintenance (Test & Maintenance stage)** |
| **Start-End Date and Time** |  |
| **Related Organizations** |  |

|  |
| --- |
| **1- List the activities of work packages.** |
|  |
| **2- Describe the methods and parameters that will be used for work package.** |
|  |
| **3- List the experiments, tests and analysis in the work package.** |
|  |
| **4- List the output of work package and its success criterias.** |
| **Outputs:**  **Success Criterias:** |
| **5- Explain the relation of output with other work packages** |
|  |

# C.1.3 List of Milestones (should be matched in the Gantt chart)

|  |  |  |
| --- | --- | --- |
|  | Description of Output | Expected Time Interval |
| *Example:* | ***Feasibility Studies*** | ***01.07.2014 – 30.09.2014*** |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |
| 6 |  |  |
| 7 |  |  |

# C.1.4 List of Risks (see example, define other risks of your project!)

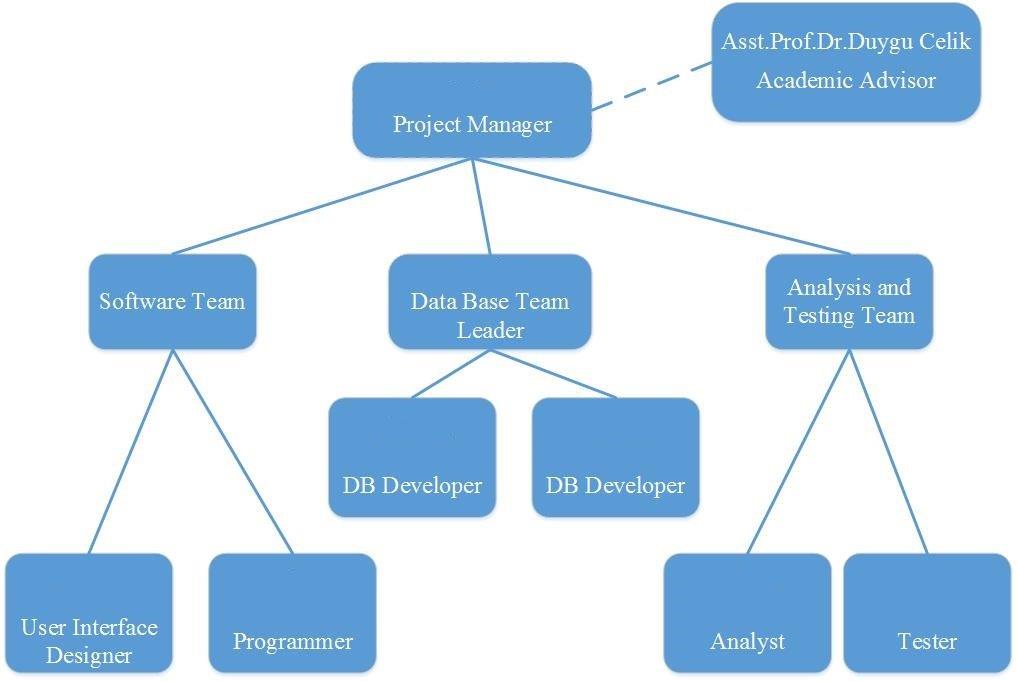
|  |  |  |  |
| --- | --- | --- | --- |
| Risk | Probability | Effects | Your Strategy |
| The time required to develop the software is underestimated. | High | Serious | ? |
| Software tools cannot work together in an integrated way. | High | Tolerable | ? |
| Customers fail to understand the impact of requirements changes. | Moderate | Tolerable | ? |
| The rate of defect repair is underestimated. | Moderate | Tolerable | Replace potentially defective components with more reliable bought-in components. |
| The size of the software is underestimated. | High | Serious | Investigate buying SW components.  Investigate use of a program generator. |
| Code generated by code generation tools is inefficient. | Moderate | Insignificant |  |
| Key staff are ill at critical times in the project. | Moderate | Serious | Reorganize team so that there is more overlap of work and people therefore understand each other’s jobs. |
| The database used in the system cannot process as many transactions per second as expected. | Moderate | Serious | Investigate the possibility of buying a higher-performance database. |

C.2 Project Management and Organization

# C.2.1 Project Team

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Personnel Name | Title | ID | Education Status | Graduation Date | Date of Starting Work | Idea Owner |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

# C.2.2 Organization Scheme (*delete this example chart below and put your chart here!*)



D.1 Economic Forecasts

|  |
| --- |
| **1- Evaluate the commercialization potential of project outcomes. List possible risks here?** |
|  |

|  |  |
| --- | --- |
| **2- List your expectations to your team which are come by your project** | |
| Time-to-market (month): |  |
| The expected increase in sales revenue (%): |  |
| The expected increase in market share (%): |  |
| Time to start to gain: |  |

D.2 National Outcomes

|  |
| --- |
| **1- Specify the output that may be subject to patent, utility model and industrial design registration in the project.** |
|  |
| **2- Explain the potential of project and its outputs that may have an effect on social life, education, health and etc.** |
|  |
| **3- Explain the positive and negative effects of project outputs for environment and human being.** |
|  |

(M013) Instrument / Equipment / Software / RELEASE PURCHASES

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Project Name** | |  | | | | | | | | | |
| **Line no** | **Instrument / Equipment / Software / Publication Name** | | **No. of Item** | **Capacity** | **Technical specification** | **Purpose of Project Activities** | **Post-Project Place of Use / Purpose** | | **Unit Price (USD)** | **Unit Price (TL)** | **Total Amount (TL)** |
| **R & D** | **Production** |
| **1** |  | |  |  |  |  |  |  |  |  |  |
| **2** |  | |  |  |  |  |  |  |  |  |  |
| **3** |  | |  |  |  |  |  |  |  |  |  |
| **4** |  | |  |  |  |  |  |  |  |  |  |
| **5** |  | |  |  |  |  |  |  |  |  |  |
| **6** |  | |  |  |  |  |  |  |  |  |  |
| **7** |  | |  |  |  |  |  |  |  |  |  |
| **8** |  | |  |  |  |  |  |  |  |  |  |
| **9** |  | |  |  |  |  |  |  |  |  |  |
| **10** |  | |  |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |  | **TOTAL** | **TL** |

(M030) Quarterly Estimated Cost Form (TL)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Project Name :** | | | | |
| **Cost Item** | **WHICH YEAR?** | | **TOTAL**  **(TL)** | **TOTAL COST RATE OF CONTENTS (%)** |
| **I** | **II** |
| **Personnel** |  |  |  |  |
| **Travel** |  |  |  |  |
| **Instrument / Equipment / Software / Publications** |  |  |  |  |
| **Domestic Works Made By R & D and Testing Institutions** |  |  |  |  |
| **International Works Made By R & D and Testing Institutions** |  |  |  |  |
| **Domestic Services Procurement** |  |  |  |  |
| **Overseas Service Procurement** |  |  |  |  |
| **Material** |  |  |  |  |
| **TOTAL COST** |  |  |  | 100 |
| **CUMULATIVE COST** |  |  |  | 100 |
| **IN THE PROJECT TOTAL MAN-MONTH** | | |  | |

APPENDIX

1. Perform estimation of effort (Man/month), required total time duration and required number of team members by using COCOMO approach (or other methods are possible).
2. CPM (Critical Path Management) analysis by using PERT (defining paths)
3. Creating network diagram of the main tasks in WBS
4. Calculating probability of successful completion rate for each paths
5. Crashing approach, etc. techniques and the results can be written here.