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| **PROJECT PLANNING & MANAGEMENT FORM**  **CMSE 322**  **PROJECT NO : 1**  **GROUP NO : 02**  **PROJECT NAME : Diet & Nutrition**  **PROJECT START DATE :26/2/2018**  **PROJECT END DATE :18/5/2018**  **SUPERVISOR :Assoc. Prof. Dr. DuyguÇelikErtuğrul**  **SEMESTER TERM : 6th semester**  Project Type: Software Design & Development Project |

A.1. Preliminary Project Information

# A.1.1

|  |  |
| --- | --- |
| **Project No** | 1 |
| **Project Name** | Diet & Nutrition |
| **Start Date** | 26 /2/2018 |
| **End Date** | 18/5/2018 |
| **Time** | 11 weeks |

# A.1.2

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| --- | --- | --- | --- |
| **Project Manager** | | | |
| **Name Surname** | Anas Nabulsi | **ID No** | 15700664 |
| **Title/Role** | Project Manager/Lead System Analyst | | |
| **Address** | 102,Asil tower ,Kiland ,Magusa,TRNC | | |
| **Phone** | 05338539365 | | |
| **Email** | [anas.great27@gmail.com](mailto:anas.great27@gmail.com) | | |

A.2 Group Information

# A.2.1

|  |  |  |  |
| --- | --- | --- | --- |
| **Studemt 1** | | | |
| **Name Surname** | Faraj Khalid | **ID No** | 143289 |
| **Title/Role** | Tester, Programming manager | | |
| **Address** | 208 block C, Leventapt.,SalamisStreet,Magusa,TRNC | | |
| **Phone** | 053385286157 | | |
| **Email** | [Khalidfaraj8@gmail.com](mailto:Khalidfaraj8@gmail.com) | | |

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| --- | --- | --- | --- |
| **Project Manager** | | | |
| **Name Surname** | Anas Nabulsi | **ID No** | 15700664 |
| **Title/Role** | Project Manager/Lead System Analyst | | |
| **Address** | 102,Asil tower ,Kiland ,Magusa,TRNC | | |
| **Phone** | 05338539365 | | |
| **Email** | [anas.great27@gmail.com](mailto:anas.great27@gmail.com) | | |

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| **Student 3** | | | |
| **Name Surname** | Sundus Haroon | **ID No** | 15701065 |
| **Title/Role** | GUI Designer, Database | | |
| **Address** | 404 block C, Leventapt.,SalamisStreet,Magusa,TRNC | | |
| **Phone** | 05338451674 | | |
| **Email** | [Sondosharoon@yahoo.com](mailto:Sondosharoon@yahoo.com) | | |

# A.2.2

|  |
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| **List of Completed / Ongoing Projects of Team** |
| * Software Security Term Project: written in Python, Mandatory Access Control, Des cipher, * Software Requirements Analysis Term Project: Defining functional/non-functional requirements of a site. * Software Quality Assurance and Testing: Testing of a website |

B.1 Introduction to Project

# B.1.1

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| **Summary of Project** |
| Our website is mainly focusing on theKetogenic diet and general nutrition. It allows users to create account, login, provide feedback, subscribe to email list, get eating and exercise plans, purchase and get coached and consulted. Furthermore, the website provides educational information about health and wellness and it guide the users on how to start by providing accurate nutrition/calorie calculators, then coach them throughout their diet journey. |

# B.1.2

|  |
| --- |
| **Key Words** |
| Diet, nutrition, Ketogenic diet, health, logging, purchasing, feedback, plans, coach, consultation |

# B.1.3

|  |
| --- |
| **Aim of Project** |
| Obesity became an epedimic in the modern world so the aim of the project is to help people lose weight and get in shape in the safest possible way based on scientific evidence. |

# B.1.4

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| **Innovative Aspects/Contributions of Project** |
| We are mainly targeting Arabs and Arabic regions and there is no Arabic website with such mentioned functionalities and many does not offer a huge value like ours does. In addition, the organized process of guiding the user from A to Z on their diet journey is missing from most of worldwide websites and features such as nutrition/calorie calculators, evidence-based advices and getting feedback from users are rarely found in the health niche. |

# B.1.5

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| **Methods to be Applied** |
| * Information Collecting via interviews and meetings, * Cost of the project, * Uml Case and hierarchy diagrams are developed on the base of collected information. * Project timeline, * Object Oriented Approach, * Testing the functionalities, * Programming in a secure environment. |

# B.1.6

|  |
| --- |
| **Economic and National Outcomes** |
| Diet plans, coachingand articles could help people to get health benefits, lose excess body fat, solve complications, fix bad eating habits and be more health conscious. |

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)** |
| Struggle of people to lose weight, the overwhelming information found on the internet that are not based on scientific evidence, the widely-spread false diets that disturb human metabolism and hormones with the lack of experts coaching and the difficulty of getting the right information regarding health optimization and fitness are encouraging reasons for us to create a website that spreads the correct knowledge based on what the medical doctors or biochemists say and what the scientific research indicate. |

|  |
| --- |
| **2- Explain the purpose of this project.** |
| Is to provide true guidance to losing weight and fat and to help followers get in shape safely by providing proper instructions based on science and nutrition/ calorie calculators. |

|  |
| --- |
| **3- Explain**   * **output of project** * **national / international standards if exist** * **the specific objectives of the project** * **success criterias** * **realistic constraints** |
| At the end of our project we aim to have a solid website that has variety of tools such as plans, articles, coaching advice, calculators and health related information to help users succeed in their way to optimal health and longevity.  There some standards that we will and have to follow such as to:   * Avoid practicing medical nutrition or treat a disease * Make unproven health or nutritional claims * Use product sales in conjunction with clientrecommendations   The specific objectives of our project are:   * To Have a reliable, secure, and responsive website * To make the website as a great helping tool for people with health problems * Increase health and nutritional awareness   Constraints and limitations can be summarized as follows:   * Getting a server * Getting traffic to our websites * Running ads to increase visibility |
| **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.**  Evolutionary development?  WE are choosing this method because our system has to continuously updated and receive feedback from users in order to fix any type of problems the website have and overcome the limitations that users face.  **Explain, Project Workflow:**   1. **Feasibility and Pre-research:** These type of projects (website projects) usually don’t require huge financial needs at the beginning but the future development might require investment in the advertisements, Server, and domain. 2. **System Design:** Joint Application design development will be used because we need continues interaction with the development of the site adding different functionalities. Furthermore, we need a faster development method and minimize errors at the same time   **Software development:**We are using Evolutionary development model because different functionalities will be added from the feedback to achieve a better system.   1. **Prototype implementation and testing work:**The project is web based so we will be having HTML, CSS,and JAVASCRIPT while for the database SQLITE will be used and we do have a lot of different alternative libraries REACT and Angular while for the back end we will be adding Django. The testing phase mostly will be done for the inputs and database in order to avoid SQL Injection and XSS. The testing method will be applied is Unit testing in order to test individual functionalities and have better results. 2. **Maintenance:**we will update the web site on our server if any error is found. Furthermore, GitHub will be used temporary for building the site. But Django version will be updated with every version accordingly. |
| **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?** |
| The project will spread via using social media sites and marketing it on the adds. The cooperation part will be decided later on when the project goes successful. The main application is Django which will allow our site to be in one place in order to run on the server easily. The expectation from the project is to be able to develop a successful Diet and Nutrition based site which will allow users to access it and get benefit from it successfully. |

B.3 Innovative and Unique Aspects

# B.3.1

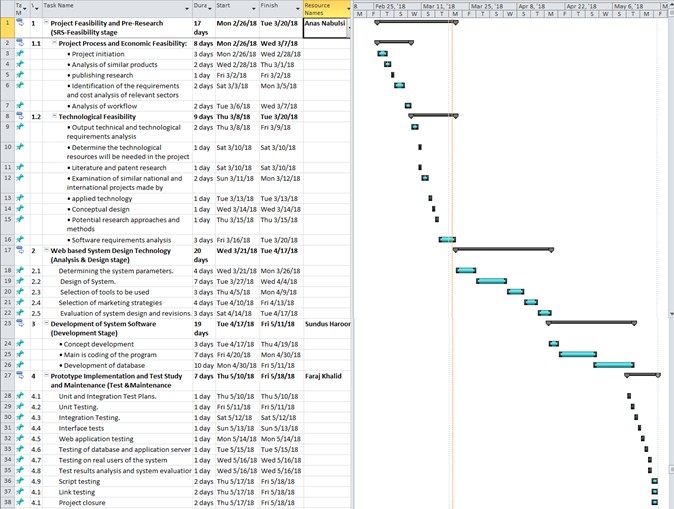
|  |
| --- |
| **1- Describe**   * **differences** * **advantages** * **superiority**   **compared to other similar projects.** |
| As we mentioned in section B.1.4, Arabic Health and nutrition website lack a lot of functionalities that we provide, Including:   1. Meal Plans 2. Calorie calculators 3. Nutrition calculators 4. Coaching 5. Science bases |
| Advantages:   1. Easy and responsive interface for users 2. Website structure is easy to follow, users can learn from A to Z about diet, how to start, meal plans, mistakes to avoid and so on without any difficulties 3. Users can give feedback, purchase, and get consulted |

# B.4.1

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| **2- Who can contribute to this project in your team?** |
| * Project manager/ lead system analyst:   Anas Nabulsi   * Tester/ Code auditor:   Faraj Khalid   * GUI Designer/ Database   Sundus Haroon |

C.1 Gantt Chart and Work Packages

# C.1.1 Gantt Chart



# 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** | 26/2/2018 to 20/3/2018 (around 2 weeks) |
| **Related Organizations** | - |

|  |
| --- |
| **1- List the activities of work packages.** |
| **1.1 Project Process and Economic Feasibility:**   * Project initiation * Analysis of similar products * publishing research * Identification of the requirements and cost analysis of relevant sectors * Analysis of workflow   **1.2 Technological Feasibility:**   * Output technical and technological requirements analysis * Determine the technological resources will be needed in the project * Literature and patent research * Examination of similar national and international projects made by * applied technology * Conceptual design * Potential research approaches and methods * Software requirements analysis |
| **2- Describe the methods and parameters that will be used for work package.** |
| Technical, legal, operational and schedule feasibility techniques will be used in this work  package. |
| **3- List the experiments, tests and analysis in the work package.** |
| * User feedback for experiments * Functional testing * Speed and responsiveness analysis * Django and react as the work packages * Atom as an editor |
| **4- List the output of work package and its success criteria’s.** |
| **Outputs:** Initial Requirements Specification Document (SRS), feasibility analysis, secured resources.  **Success Criteria:** Project approved, project is feasible to implement, initial requirements are well  documented, resources and team members are secured. |
| **5- Explain the relation of output with other work packages** |
| Other work packages prerequisite to this feasibility work package. So, only after this work  package successfully end, we can start to work on other work packages. |

|  |  |
| --- | --- |
| **Work Package No** | 2 |
| **Work Package Name** | **Web based System Design Technology (Analysis & Design stage)** |
| **Start-End Date and Time** | 21/3/2018 to 17/4/2018 (around 3 weeks) |
| **Related Organizations** | - |

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| --- |
| **1- List the activities of work packages.** |
| * Determining the system parameters. * Design of System. * Selection of tools to be used * Selection of marketing strategies * Evaluation of system design and revisions. |
| **2- Describe the methods and parameters that will be used for work package.** |
|  Figuring out system architecture with this work package   Research about the most useful methodologies for project |
| **3- List the experiments, tests and analysis in the work package.** |
| - User feedback for experiments  - Functional testing  - Speed and responsiveness analysis  - Django and react as the work packages  - Atom as an editor |
| **4- List the output of work package and its success criterias.** |
| **Outputs:**  The most important output is fully ready system architecture for development stage.  **Success Criterias:**  **Convenient models and methodologies.** |
| **5- Explain the relation of output with other work packages** |
| Django work package is capable of gathering all the html, css and JavaScript files (all the functionalities) |

|  |  |
| --- | --- |
| **Work Package No** | 3 |
| **Work Package Name** | **Development of System Software (Development Stage)** |
| **Start-End Date and Time** | 17/4/2018 to 11/5/2018 (2.5 weeks) |
| **Related Organizations** | - |

|  |
| --- |
| **1- List the activities of work packages.** |
| * Concept development * Main is coding of the program * Development of database |
| **2- Describe the methods and parameters that will be used for work package.** |
| Creating relational database with ER and different diagrams |
| **3- List the experiments, tests and analysis in the work package.** |
| * Review functional specifications * Develop code and database * Developer testing * Interface design with different tools |
| **4- List the output of work package and its success criterias.** |
| **Outputs:** Diet & Nutrition web based application package running sample application of project which will be ready for testing codes  **Success Criterias:** A successful working package file of our project. |
| **5- Explain the relation of output with other work packages** |
| The project is fully connected this work package because other work packages are  preparatory for this step. After this work package there will be only testing and releasing  steps. |

|  |  |
| --- | --- |
| **Work Package No** | 4 |
| **Work Package Name** | **Prototype Implementation and Test Study and Maintenance (Test &Maintenance stage)** |
| **Start-End Date and Time** | 10/5/2018 to 18/5/2018 (1 week) |
| **Related Organizations** | - |

|  |
| --- |
| **1- List the activities of work packages.** |
| * Unit and Integration Test Plans. * Unit Testing. * Integration Testing. * Interface tests * Web application testing * Testing of database and application server * Testing on real users of the system * Test results analysis and system evaluation * Script testing * Link testing * Project closure |
| **2- Describe the methods and parameters that will be used for work package.** |
| * Database testing * Script testing * Link testing * Interface testing by all team members * Testing real users’ opinions about project and usability |
| **3- List the experiments, tests and analysis in the work package.** |
| * Unit test will be completed and correcting errors if there exist. Unit test is the most   test for project release step. |
| **4- List the output of work package and its success criterias.** |
| **Outputs:**  Test data, Reporting test results  **Success Criteria:**  Testing successfully completed with all the errors and bugs successfully fixed. |
| **5- Explain the relation of output with other work packages** |
| After the work package is successfully tested, we can move on to the next stage which is delivery and maintenance. A good maintenance and documentation are very important for the project to be successful and it will be ready to be published |

# 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 | **Project Feasibility and Pre-Research** |  |
| 2 | **Web based System Design Technology** |  |
| 3 | **Development of System Software** |  |
| 4 | **Prototype Implementation and Test Study and Maintenance** |  |

# C.1.4 List of Risks (see following example, find other risks of your Project!)

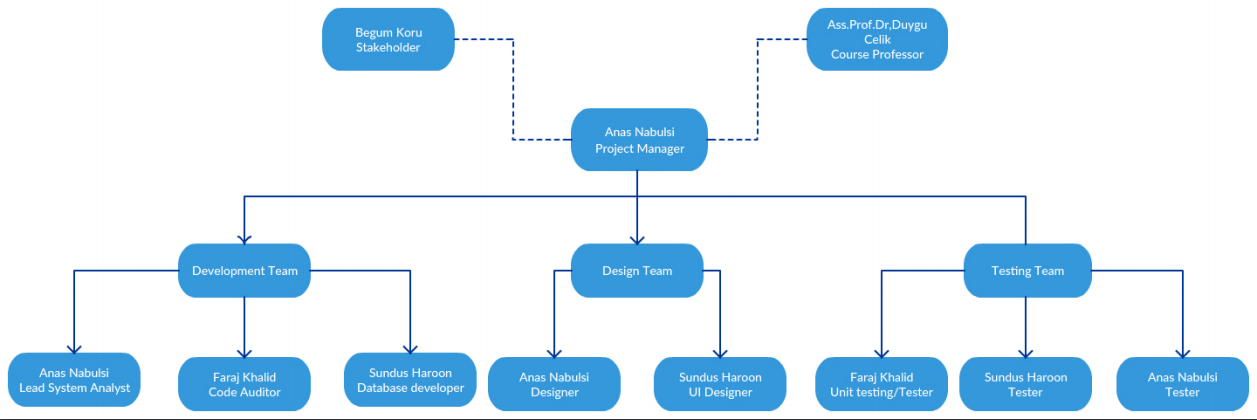
|  |  |  |  |
| --- | --- | --- | --- |
| Risk | Probability | Effects | Your Strategy |
| The time required to develop the software is underestimated. | High | Serious | Divide the tasks and functionalities and assign them according to the hierarchy diagram |
| Software tools cannot work together in an integrated way. | High | Tolerable | By using a server we will be able to combine all the tools together |
| Customers fail to understand the impact of requirements changes. | Moderate | Tolerable | Encourage them to send feedback to improve the services |
| 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 | We will work on the redundancy and more space will be added in the server |
| 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 | Queuing method is going to be used where the user will be notified as the transaction is required |

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** |
| Anas Nabulsi | Project Manager | 15700664 | Bachelors Soft.eng | 2019 | - | - |
| Faraj Khalid | Tester | 143289 | Bachelors Soft.eng | 2019 | - | - |
| Sundus Haroon | Designer | 15701065 | Bachelors Soft.eng | 2019 | - | - |

# C.2.2 Organization Scheme



D.1 Economic Forecasts

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| --- |
| **1- Evaluate the commercialization potential of project outcomes. List possible risks here?** |
| Commercialization of our product can start as soon as the development and testing of the most  important modules is done. However, to further guarantee that everything is working as planned  and to have an advantage over other websites, we are going to wait until most of the features of  the websiteare done. After that, the commercialization process starts when the webpage is  published. Then, many user feedbacks will be gained and improvements with  new features and bug fixes will be implemented. In addition, during this time, an advertisement  campaign will be made to promote our website and increase the awareness. |

|  |  |
| --- | --- |
| **2- List your expectations to your team which are come by your project** | |
| Time-to-market (month): | Unknown |
| 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.** |
| The name of the project as well as the logo of the project should be patent |
| **2- Explain the potential of project and its outputs that may have an effect on social life, education, health and etc.** |
| This project can grow rapidly by targeting overweight and obese people and because of the value it provides. Many people’s health problems such as hormonal imbalances, obesity, hypo/hyperthyroidism, diabetes, Narcolepsy, Alzheimer’s and epilepsy might get solved completely or at least get improved if the directions and instructions of the website is properly followed.Moreover, people will become more health-conscious and their awareness of nutrition and diet will be increased. Sometimes, one’s health can affect his/her social life so by trying to solve the health issues they have, their social life might get better in addition to improving their personal life. |
| **3- Explain the positive and negative effects of project outputs for environment and human being.** |
| The project has no negative effects whatsoever on human beings and environment, the project is entirely and only related to improve overall health and spread nutritional advices based on scientific evidence. |

(M013) Instrument / Equipment / Software / RELEASE PURCHASES

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Project Name** | | **KetoArabic** | | | | | | | | | |
| **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** | **Domain** | | **1** | **-** | **DNS** | **Public hosting** | **-** | **YES** | **10** | **38** |  |
| **2** | **Microsoft project** | | **1** | **-** | **Project Management** | **Plan and schedule** | **YES** | **YES** | **598** | **2200** |  |
| **3** | **Atom** | | **3** | **-** | **Development environment** | **Code editing** | **YES** | **YES** | **FREE** | **FREE** |  |
| **4** | **Advertisement services** | | **~** | **-** | **Marketing** | **IncreasingAwareness** |  | **YES** | **Unspecified** | **Unspecified** |  |
| **5** | **Cloud Storage** | | **-** | **-** | **Storage** | **Storing Data** |  | **YES** | **Unspecified** | **Unspecified** |  |
|  |  | |  |  |  |  |  |  |  | **TOTAL** | **2238 TL** |

(M030) Quarterly Estimated Cost Form (TL)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Project Name : KetoArabic** | | | | |
| **Cost Item** | **2018** | | **TOTAL**  **(TL)** | **TOTAL COST RATE OF CONTENTS (%)** |
| **I** | **II** |
| **Personnel** | 5,000 | 5,000 | 1,000 | 89% |
| **Travel** | 1,000 | 1,000 | 2,000 | 80% |
| **Instrument / Equipment / Software / Publications** | 2238 | 2238 | 4476 | 60% |
| **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** | Depends that time need | Depends that time need | - |  |
| **TOTAL COST** | 8238 | 8238 | 16,476 | 100 |
| **CUMULATIVE COST** | - | - | 23,952 | 100 |
| **IN THE PROJECT TOTAL MAN-MONTH** | | | 23,952 | |

**APPENDIX**

**ScreenShots From MS-PROJECT:**

