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

# B.2.1

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| **1- Explain the reason of starting this project. (Max 500 charachter)** |
| The application will be a useful tool to reach the fast-rising community of technology users, helping them become aware of the benefits of functional foods and introducing them to a variety of health regimes to promote healthy living.  Also, the application markets currently are flooded with loads of in-effective or non-functional health applications hence the introduction of our product. |

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| **2- Explain the purpose of this project.** |
| The purpose of this project is to create, design, implement, test and document a fully functional Food and Health application. |

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| **3- Explain**   * **output of project** * **national / international standards if exist** * **the specific objectives of the project** * **success criterias** * **realistic constraints** |
| Output: Recipes, diet plans ,recommended calorie in-take values  Objectives: Create an application with a functional database containing medical research  Success Criteria: Fully functional search tools- recipe lists, specific foods. Accurate symptom diagnosis based on user inputs.  Realistic constraints: Application lags due to size of embedded videos.  Basic symptom diagnosis due to limited database of medical  information |
| **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.**  **Agile** **software** **development.** Because its a small project-mobile application, with agile development solutions will easily evolve through collaboration between self-organizing, cross-functional teams. It promotes adaptive planning, evolutionary development, early delivery, continuous improvement, and encourages rapid and flexible response to change.  **Explain, Project Workflow:**   1. **Feasibility and Pre-research:** A study to determine whether the requested system makes economic and operational sense for the organization. This phase will produce a baseline project plan. 2. **System Design:** In this section,   **-**Define the architecture, components,  **-**Define modules, interfaces,  **-**Define data for the system to satisfy specified requirements.   1. **Software development:** In this section,  * computer programming, * documenting, * testing code and bug fixing involved in creating and maintaining applications and frameworks (unit tests)  1. **Prototype implementation and testing work:** In this section,  * Create early sample, model, of a product built to test a units of the program * Perform integration tests  1. **Maintenance:** In this section,   **-**correct faults,  **-**improve performance or other attributes on delivered product. |
| **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 output can be used for national projects- health applications such as patient-hospital registration system, could serve as a symptom fill in form. |

B.3 Innovative and Unique Aspects

# B.3.1

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| **1- Describe**   * **differences** * **advantages** * **superiority**   **compared to other similar projects.** |
| The health application will not just offer tips but it will help the user create their fitness regime according to their body types. The application offers in depth study of diseases- their symptoms, preventions, functional foods to help with the treatment. Unlike any other application, it will consists of several recipes of a wide variety of delicacies. It will also feature a calorie counter to help the user track, how many calories they are consuming or should consume. |

# B.4.1

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| **2- Who can contribute to this project in your team?** |
| Project Manager- Charles Brown  Analysis and Testing Team:   * Test Leader: Eranus Hasan * Analysts – Iurii Kabalnov,Charles Brown, Ivy Thompson   Software Team:   * User Interface Designer (Lead) – Ivy Thompson * Programmer- Charles Brown, Eranus Hasan, Iurii Kabalnov   Database Team :   * Database Team Leader- Iurii Kabalnov * Database Developers- Charles Brown, Ivy Thompson   Academic Advisor – Ms. Begum Koru |
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