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| **PROJECT PROPOSAL FORM**  **PROJECT NO: 3**  **PROJECT NAME: Take Out**  **PROJECT START DATE: 15th March 2017**  **PROJECT END DATE: 29th May 2017** |

A.1. Preliminary Project Information

# A.1.1

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| **Project No** | 2 |
| **Project Name** | Take Out |
| **Start Date** | March 15th 2017 |
| **End Date** | May 29th 2017 |

# A.1.2

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| **Project Manager** | | | |
| **Name Surname** | Oyinbobola Shalom Owojori | **ID No** | 128236 |
| **Title/Role** | UI designer/Project manager/Programmer | | |
| **Address** | Lemar | | |
| **Phone** | 05338605635 | | |
| **Email** | Bowojori7@gmail.com | | |

A.2 Group Information

# A.2.1

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| --- | --- | --- | --- |
| **Student 1** | | | |
| **Name Surname** | Oyinbobola Shalom Owojori | **ID No** | 128236 |
| **Title/Role** | User Interface Designer/Project manager/Programmer | | |
| **Phone** | 05338605635 | | |
| **Email** | Bowojori7@gmail.com | | |

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| --- | --- | --- | --- |
| **Student 2** | | | |
| **Name Surname** | Abdulrazak Omeiza Yakubu | **ID No** | 138859 |
| **Title/Role** | System developer | | |
| **Address** | The Streets | | |
| **Phone** | 05338314668 | | |
| **Email** | yakson500@gmail.com | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Name Surname** | Kamshinen Rotdung | **ID No** | 138893 |
| **Title/Role** | System developer and Tester | | |
| **Address** | Naviparks | | |
| **Phone** | 05338700437 | | |
| **Email** | kamrotz@gmail.com | | |

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| --- | --- | --- | --- |
| **Student 4** | | | |
| **Name Surname** | Zainab Sada | **ID No** | 149190 |
| **Title/Role** | Database designer | | |
| **Address** | Alfam C block | | |
| **Phone** | 05338526574 | | |
| **Email** | zainabsada@yahoo.com | | |

# A.2.2

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| **List of Completed / Ongoing Projects of Team** |
| * KUI app – Mobile quiz application. * Voice recognition software * Unity mobile game development * Text recognition software * Image and Video watermarking project research * Mandatory Access control security program |

B.1 Introduction to Project

# B.1.1

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| **Summary of Project** |
| The Take Out project is a mobile android application that allows users to order food from local restaurants that have delivery services with ease, provided that they have an internet connection. It also allows restaurants receive order notifications and respond to them. It offers a more efficient customer to restaurant relationship. |

# B.1.2

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| **Key Words** |
| * Take Out * Online Restaurant * Food service * Online restaurant reservation * Digital Menu |

# B.1.3

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| **Aim of Project** |
| One of the aims of the project is to design a mobile app that makes ordered food more accessible for people and to digitize the food ordering process. Eliminating the need to talk on the phone. Also have your favorite dishes known by the restaurants for improved customer service. |

# B.1.4

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| **Innovative Aspects/Contributions of Project** |
| The application offers a **digital menu** that allows users(customers) to easily order and pick from optional ingredients thus making sure they get exactly what they want to eat without any extra unwanted ingredients. Avoiding the issues of Allergic reactions due to not knowing what your food is made of. |

# B.1.5

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| **Methods to be Applied** |
| * Extreme Programming: continuous process rather than batch * Continuous Integration * Design improvement * Small releases |

# B.1.6

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| **Economic and National Outcomes** |
| The application will help users save money on call credit, as they no longer need to use a phone to call to order food. Due to the convenience, this system promises to provide it will drive more customers to registered clients. |

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 character)** |
| We’re starting this project because we noticed a need for an application that allows you to get food without calling the restaurant for the times when people don’t have call credit (Kontor). We also noticed that when you call, there’s a tendency for misinterpretation and sometimes the wrong type of food, or the right food with wrong ingredients gets delivered.  The project is a way of attending to these problems. |
| **2- Explain the purpose of this project.** |
| The purpose of the project is to make the food ordering process seamless, digital and save money while doing so. Eliminating the need to make a phone call when you want to order food and improving delivery response time and also more care for the customer’s food. |

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| **3- Explain**   * **output of project** * **national / international standards if exist** * **the specific objectives of the project** * **success criteria** * **realistic constraints** |
| The output of the project is a working android application that allows customers (users) to order food from a restaurant close to their location and restaurants (users) to receive the  order  Success Criteria:   * Working application that allows users order and the restaurant receives their order.   Realistic constraints:   * Problems with the internet connection. |
| **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** |
| Due to the nature of this project which might require frequent modification in customer requirements we shall go with the incremental development techniques which is well known to be cost effective when it comes to requirement changes.  **Project Workflow:**   1. **Feasibility and Pre-research:**   This is the initial stage of the project; our company shall take the time to undergo quality research and information digging to ensure the possibility and success of this system with our current available resources. Research shall include what will give this system the competitive edge amongst similar projects.   1. **System Design:**   This part contains all the decision making about parts of the system, including all modules to be implemented, what techniques are most suitable, getting a well-documented deliverable containing all entities, and design diagrams to be followed in this project like the use cases, dataflow, database ER diagrams etc.   1. **Software development:**   System will be implemented using the java programming language and android studio, hence deployed to the android platform for their devices. it shall contain an SQL database where data can be stored and manipulated by the system in real-time;   1. **Prototype implementation and testing work:**   As earlier stated we are using the incremental development thereby dishing out small releases from time to time till we get a working prototype to be tested, if successful the next prototype implementation phase shall commence   1. **Maintenance:**   For quality assurance and quality control high techniques shall be used, feedback shall be gotten from users of this system, bugs shall be recorded and continuously fixed, same for other issues and proposed improvements |
| **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?** |
| Research activities:  **Literature search**   * for common trends in online applications * for common practices * for common drawbacks * for technical failures   **Market search** for competitive products price and percentage profit over a period of time  As the system grow in the near future we plan to offer some of our services through APIs to similar systems in need of our product. |

B.3 Innovative and Unique Aspects

# B.3.1

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| **1- Describe**   * **differences** * **advantages** * **superiority**   **compared to other similar projects.** |
| * Mobile app that allows you to order food * It provides a digital menu so you get exactly what you want, eliminates confusion between the restaurant and the customer * Shows restaurants that can deliver to your location * keeps track of frequent customers and their order details this makes Take Out different and superior |

# B.4.1

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| **2- Who can contribute to this project in your team?** |
| * Project Manager * System Designer * Database programmer * Programmer/ System developer * All stakeholders |

# C.1.2 List of Work Packages

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| --- | --- |
| **Work Package No** | 1 |
| **Work Package Name** | **Project Feasibility and Pre-Research (SRS-Feasibility stage)** |
| **Start-End Date and Time** | March 15th – March24th |
| **Related Organizations** |  |

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| **1- List the activities of work packages.** |
| **1.1 Project Process and Economic Feasibility:**  Project Initiation  -Market 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.** |
| Research on the internet for similar applications  - Acquiring the list of necessary tools  -determinations of processes and methodology  -Research of recent trends, risks, and best practices |
| **3- List the experiments, tests and analysis in the work package.** |
| -Economic feasibility analysis  -Analysis of similar products  - Budget feasibility analysis |
| **4- List the output of work package and its success criteria.** |
| **Outputs:**  -Sufficient guides found from research to help put our program in perspective  -Complete economic and technological feasibility study  **Success Criteria:**  - project is put in perspective and successful initiation achieved |
| **5- Explain the relation of output with other work packages** |
| The output here ere helps in the documentation sages with strategies needed alongside creation and delivering the deliverables |

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| --- | --- |
| **Work Package No** | 2 |
| **Work Package Name** | **Take Out Based System Design Technology (SRS-design stage)** |
| **Start-End Date and Time** | March 24 –April 2nd |
| **Related Organizations** |  |

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| **1- List the activities of work packages.** |
| * Determining System Parameters * Design of System * Selection of Device to be used * Evaluation of System Design |
| **2- Describe the methods and parameters that will be used for work package.** |
| * Time is analyzed to see if pace is slow * Management tools are used e.g. Visual Paradigm, Mockflow, Atomic * Requirements are rechecked and revised for better understanding * Customer feedback |
| **3- List the experiments, tests and analysis in the work package.** |
| * Time analysis * Budget analysis * Effort estimation * Cost of change estimation * Risk management |
| **4- List the output of work package and its success criteria.** |
| **Outputs:**   * System requirement document * Project structure * Dataflow diagrams * Sequence diagrams * Use case diagrams * E-R diagrams   **Success Criteria:**  With this documents estimates are more accurate like use case estimates using use case point as a unit of measurement |
| **5- Explain the relation of output with other work packages** |
| With this output, the development and unit testing stages can commence |

|  |  |
| --- | --- |
| **Work Package No** | 3 |
| **Work Package Name** | **Take Out Development of System Software (SRS-Development Stage)** |
| **Start-End Date and Time** | April 6th –April 21st |
| **Related Organizations** |  |

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| **1- List the activities of work packages.** |
| -Creating Database  -Software Development  -Establishment of Structure and Necessary Software  -Algorithm Modeling  -Creating a system Programming Language for Web Server  -Creating a Database Connection Between Web Services  -User Interface Design and Programming  -Software Integration  -Creating of link between Web Services and Database Module  -User Interface Testing  -System Testing |
| **2- Describe the methods and parameters that will be used for work package.** |
| -Android studio for coding  -UI design  -Database implementation  -Functional testing  -Unit testing |
| **3- List the experiments, tests and analysis in the work package.** |
| -Risk analysis and monitoring  -Functional testing  -Connection testing  -Algorithmic analysis  -UI testing  -broken link test and fixing |
| **4- List the output of work package and its success criteria.** |
| **Outputs:**  -A working database  -A Forgiving User Interface  -An improved program  -AN integrated system  **Success Criteria:**  -constant successful connection to server and database  -user interface components correctly carry out its functionality  -dataflow correctness  -robustness acquired  -database can hold large size of information  -no broken link |
| **5- Explain the relation of output with other work packages** |
| When all pieces of the system have been completed, it will lead to the implementation and thus the creation of a prototype |

|  |  |
| --- | --- |
| **Work Package No** | 4 |
| **Work Package Name** | **Prototype Implementation and Test Study and Maintenance (SRS-Test & Maintenance stage)** |
| **Start-End Date and Time** | April 19th- April 30th |
| **Related Organizations** |  |

|  |
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| **1- List the activities of work packages.** |
| -Interface Test  -Mobile Application Testing  -Testing of Database and Application Server  -Testing on Real Users of the System  -Test Results Analysis and Software Evaluation |
| **2- Describe the methods and parameters that will be used for work package.** |
| * Black-box testing * White-box testing * User experience measurement * Analysis of algorithms |
| **3- List the experiments, tests and analysis in the work package.** |
| -Interface Test  -Mobile Application Test  -Testing of Database and Application… |
| **4- List the output of work package and its success criteria.** |
| **Outputs:**  A presentable prototype of our system  **Success Criteria:**  A working system in accordance to our initial idea and time plan and no budget problems |
| **5- Explain the relation of output with other work packages** |
| If output was what was expected is signifies that all other packages were implemented accurately. |

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

|  |  |  |
| --- | --- | --- |
|  | **Description of Output** | **Expected Time Interval** |
| 1 | Economical and technological feasibility study | March 15th 2017 -March 20 2017 |
| 2 | 1st draft of the system’s source code | March 24th 2017-March 29th 2017 |
| 3 | A working database | April 1st - April 19th 2017 |
| 4 | A User Interface | April 21st - May 2nd |
| 5 | An improved program | May 3rd - May 19th 2017 |
| 6 | A presentable prototype of our system | May 19th - May 23rd 2017 |

# C.1.4 List of Risks

|  |  |  |  |
| --- | --- | --- | --- |
| Risk | Probability | Effects | Your Strategy |
| Poor Productivity:Given long project timelines, the sense of urgency to work in earliest is often absent resulting to time lost in early project stages that can never be regained | Low | Serious | Short iterations, right people on team, coaching and team development. |
| Inherent Schedule Flaws:Software development, given the intangible nature and uniqueness of software, is inherently difficult to estimate and schedule. | High | Tolerable | Get the team more involved in planning and estimating. Get early feedback and address slips directly with stakeholders. |
| Requirements Inflation:As the project progresses more and more features that were not identified at the beginning of the project emerge that threaten estimates and timelines. | Moderate | Tolerable | Constant involvement of customers and developers. |
| Employee Turnover:Key personnel leave the project taking critical information with them that significantly delays or derails the project. | Low | Serious | Increased collaboration and information sharing on the team. |
| Specification Breakdown:When coding and integration begin it becomes apparent that the specification is incomplete or contains conflicting requirements. | Moderate | Tolerable | Use a dedicated Product Manager to make critical trade off decisions. |

C.2 Project Management and Organization

# C.2.1 Project Team

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Personnel Name** | **Title** | **ID No** | **Education Status** | **Graduation Date** | **Date of Starting Work** | **Idea Owner** |
| Oyinbobola Owojori | Leader And Analyzer  User Interface Designer | 128236 | Undergraduate | Spring 2017 | 15/03/2017 | Yes |
| Kamshinen Rotdung | System Developer and tester | 132034 | Undergraduate | February 2018 | 24/03/2017 |  |
| Abdulrazak Omeiza Yakubu | System developer | 138859 | Undergraduate | Spring 2017 | 24/03/2017 |  |
| Zainab Sada | Database Designer and programmer | 149190 | Undergraduate | Spring 2017 | 24/03/2017 |  |

**C.2.2 Organization Scheme**

Leader and Analyst

Oyinbobola

Soft.Development

System coding

Oyinbobola

UI designer

Zainab Sada

Database designer

UI Design & Database

Kamshinen

Program tester

Analysis & Testing

Abdulrazak, Oyinbobola

Android developers

Abdulrazak, Oyinbobola

System analyzers

Kamshinen

Lead programmer

D.1 Economic Forecasts

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| --- |
| **1- Evaluate the commercialization potential of project outcomes. List possible risks here?** |
| Commercialization potential of this project is linked to the ability of the marketing team and the demand of this system type in the world market.  Possible Risks   * High level of competition * Inflexible end users * High price of required tools * Low end user experience leads to low profit |

|  |  |
| --- | --- |
| **2- List your expectations to your team which are come by your project** | |
| Time-to-market (month): | September 2017 |
| The expected increase in sales revenue (%): | 40% |
| The expected increase in market share (%): | 60% |
| Time to start to gain: | December 2017 |

D.2 National Outcomes

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| **1- Specify the output that may be subject to patent, utility model and industrial design registration in the project.** |
| System might require a certificate of authenticity from the food government body responsible in Turkey to show food supplied by restaurants satisfy all health standards. |
| **2- Explain the potential of project and its outputs that may have an effect on social life, education, health and etc.** |
| This system will provide a very high level of convenience for customers with tight day to day routines like students and workers.  Free WIFI is highly available that is why this system will deliver on its promises. |
| **3- Explain the positive and negative effects of project outputs for environment and human being.** |
| On the positive side this system is to be deployed on mobile devices that makes it portable, but as convenient as this system might be verbal communication is key and cannot be totally sidelined. Also there is a language difficulty as the main language of this system shall be English. |

(M013) Instrument / Equipment / Software / RELEASE PURCHASES

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Project Name** | | **Take Out** | | | | | | | | | |
| **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** | **Android studio** | | **2** | **1,2** | **SDK 24.4.1** | **coding** | **x** |  | **free** | **free** | **free** |
| **2** | **Office 2016** | | **6** | **1GB** |  | **documentation** | **X** | **X** | **free** | **free** | **free** |
| **3** | **SQL** | | **1** | **UNDEFINED** |  | **database** | **X** |  | **120** | **360** | **360** |
| **4** | **Computer server** | | **1** | **500BGB** |  | **Connectivity testing and storage** | **X** | **X** | **500** | **1500** | **1500** |
| **5** | **Adobe Photoshop** | | **2** | **X** |  | **UI Design** | **X** |  | **120** | **360** | **720** |
| **6** | **Virtual machine** | | **2** | **X** |  | **Testing and implementation** | **X** |  | **free** | **free** | **Free** |
| **7** | **Laptop device** | | **6** | **4GB RAM** | **Windows** | **organization** | **X** | **X** | **600** | **1800** | **10800** |
| **8** | **Android device** | | **3** |  |  | **Testing user experience** | **X** |  | **300** | **900** | **2700** |
| **9** | **Visual Paradigm** | | **3** |  |  | **management** | **X** |  | **free** | **free** | **free** |
| **10** | **MS project tool** | | **3** |  |  | **management** | **X** |  | **free** | **free** | **free** |
| **11** | **Atomic IO** | | **1** |  |  | **UI Design** |  |  | **free** | **free** | **free** |
| **12** | **Firebase** | | **1** |  |  | **Database Design** |  |  | **free** | **free** | **free** |
|  |  | |  |  |  |  |  |  |  | **TOTAL** | **16080TL** |

(M030) Quarterly Estimated Cost Form (TL)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Project Name: Take Out** | | | | |
| **Cost Item** | **march 2017-may 2017** | | **TOTAL**  **(TL)** | **TOTAL COST RATE OF CONTENTS (%)** |
| **I** | **II** |  |
| **Personnel** | 6000tl | 6000tl | 12000tl |  |
| **Travel** | 2500tl | 4700tl | 7200tl |  |
| **Instrument / Equipment / Software / Publications** | 6080tl | 1080tl | 7160 |  |
| **Domestic Works Made by R & D and Testing Institutions. Polarion QA tool** | 400tl | 800tl | 1200 |  |
| **International Works Made by R & D and Testing Institutions. SQUISH GUI tester** | 1200tl | 800tl | 2000 |  |
| **Domestic Services Procurement** | 100tll | 400tl | 500 |  |
| **Overseas Service Procurement** | 0tl | 0tl |  |  |
| **Material** | 1500tl | 560tl | 2060 |  |
| **TOTAL COST** |  |  |  | 100 |
| **CUMULATIVE COST** | 17780tl | 14340tl | 32120 | 100 |
| **IN THE PROJECT TOTAL MAN-MONTH** | | | 1.76 | |

