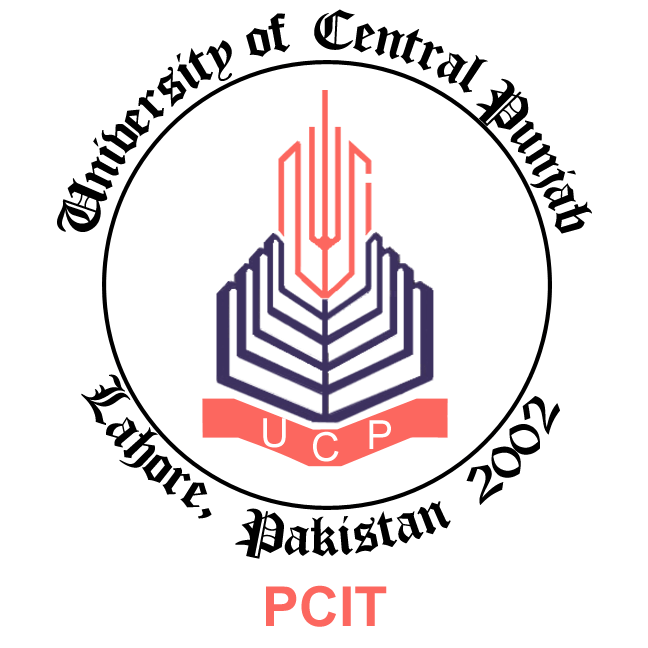
**BSCS FINAL PROJECT PROPOSAL**

AssetIn: Asset Management Tool

*Term of Registration: Fall 2024*



Presented by:

|  |  |
| --- | --- |
| **Registration No:** | **Name:** |
| L1F21BSCS1059 | MUHAMMAD BURHAN |
| L1F21BSCS0485 | AREEBA KHAN |
| L1F21BSCS0484 | NOOR-UL-AAIN MAQBOOL |

|  |
| --- |
| Faculty of Information Technology |

University of Central Punjab

**Project Title**

Intuitive Cloud-Based Asset Management Tool.

**Project Advisor**

Asif Farooq

**Particulars of the students:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sr. # | **Registration#** | **Name in Full** | **Email** | **Contact #** | **CGPA** | **Signatures** |
| 1 | L1F21BSCS1059 | MUHAMMAD BURHAN | l1f21bscs1059@ucp.edu.pk | 03004653232 | 3.58 |  |
| 2 | L1F21BSCS0485 | AREEBA KHAN | l1f21bscs0485@ucp.edu.pk | 03224386028 | 2.97 |  |
| 3 | L1F21BSCS0484 | NOOR-UL-AAIN MAQBOOL | l1f21bscs0484@ucp.edu.pk | 03081333354 | 3.49 |  |

**Advisor’s Consent**

I Prof. / Dr. / Mr. / Ms. Asif Farooq am willing to guide these students in all phases of above-mentioned project as advisor. I have carefully seen the Title and description of the project and believe that it is of an appropriate difficulty level for the number of students named above.

|  |  |  |
| --- | --- | --- |
| **Note:**  Advisor can’t be changed without prior permission of the Manager Projects and the duration for completion of the Project is 2 regular semesters (approx.) from the date of Registration of Research Project. | Signatures and Date  |  | | --- | |  |   **Advisor** |

**EVALUATOR/REFEREE 1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| I have carefully read the project proposal and feel that the proposed project is a useful one and of a sufficient difficulty level to justify 2 regular semesters workload for above mentioned students. I have made recommendations in the evaluation form to improve the scope and quality of the project. | | | | | |
|  | | | | Signatures and Date | |
|  |  |  |  |  |  |
|  | | | |  |

**EVALUATOR/REFEREE 2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| I have carefully read the project proposal and feel that the proposed project is a useful one and of a sufficient difficulty level to justify 2 regular semesters workload for above mentioned students. I have made recommendations in the evaluation form to improve the scope and quality of the project. | | | | | |
|  | | | | Signatures and Date | |
|  |  |  |  |  |  |
|  | | | |  |

**Abstract / Executive Summary**

Abstract gives the summary of your project. You should focus on the problem description, significance of the problem, knowledge areas to be used and the results to be acquired. Make sure it does not turn out to be an introduction to the introduction / background but summarizes the whole proposal.

**Introduction and Background**

You are required to write down a brief introduction to your project work giving out the background of the project. In this section you should provide the context and initial knowledge of the domain. You should also highlight the significance of problem and provide motivation behind the work being done.

**Statement of the Problem**

Describe the exact problem your project is solving. What question is your project seeking to answer?

**Objective(s) / Aim(s) / Target(s)**

Objectives are the final results to be achieved after the completion of your project. The objectives must be explicitly stated. The objectives should be achievable in the stipulated time period. Do not be too ambitious and, at the same time, must conform to your program level. These shall not be too many. Research objectives tell what will be the contribution of your project in the area you are working on?

**Completeness Criteria**

Briefly describe completeness criteria for your project. These criteria will be used to evaluate your project. If your project fulfills these criteria, then it will be considered complete. You need to define each subpart of your project and assign it a weightage. The weightage would help evaluators deciding project completeness and hence your terminal grade. You may expand the table up to the minutest level you want. The criteria vary project to project depending upon your contribution and deliverables.

|  |  |  |
| --- | --- | --- |
| **S.No.** | **Criteria** | **Weightage %** |
| 1 | Desktop GUI | 10 |
| 2 | Mobile Application Development | 20 |
| 3 | Algorithm Development | 40 |
| 4 | Driver Circuit Development | 15 |
| 5 | Microcontroller Interfacing with sensors and actuators | 10 |
| 6 | Communication | 5 |

**Challenges**

List the computer science related difficult tasks in the project. For example, the activities that are expected to present challenge to the students doing this project such as understanding certain research paper, understanding one of the existing solutions, integrating the various technologies involved, implementing a complex algorithm etc.

**Knowledge Areas Required**

State which areas from your BSCS degree are expected to be used in this project, for example you can write modeling and simulation, electronics, product design, machine learning, optimization, software engineering etc.

**Learning Outcomes**

State what will be the new thing learnt by the students when this project gets completed. Examples of learning outcomes include (but not limited to) becoming familiar with XML, becoming expert programmer in JAVA, understanding an important category of algorithms, becoming a master of a certain API, understanding of an application area, understanding a research paper or an algorithm in the paper, learning the writing of microcontrollers, learning integration of hardware modules etc.

**Nature of the End Product / Research Outcomes**

State whether the end product will be a program that applies certain algorithms to some application, a tool that is end product of a research, a dataset, a simulator developed as a result of research, an animated movie developed using graphics techniques, a system that achieves better performance than its competitors, or a software package that is useful in certain application etc.

**Related Work / Literature Survey / Literature Review**

This doesn't need to be complete yet, but should be enough to show the project is relevant and interesting and make it clear what has and has not already been done by other people. You should make sure to relate the related work to your project. Compare your application/work with others and differentiate your work from others’. Also, include the related projects from the list of previous projects provided by the Project Office.

**Deliverables / Work Breakdown Structure**

Decompose your project into pieces such that tangible deliverables can be defined. This should help you develop the plan and help your advisor track your progress. After identifying the deliverables, also describe the amount of work that will be reused in your project. 60 to 70% of the project should be students’ own work. In addition to the list of deliverables, also develop a Work Breakdown Structure (WBS).

**Project Plan / Project Schedule / Project Timetable / Project Calendar**

Concrete description of what you plan to do. Your plan must include clear milestones for every week until the project due date. After development of the WBS, schedule the subtasks/activities in a way that the work is completed in time. Show the schedule as GANTT chart. Describe the use of resources for each subtask. Indicate how you and your advisor will be monitoring the progress on periodic-basis.

**Resources Required**

What resources in terms of books/ magazines, laboratory/test equipment, development systems (both hardware and software), semiconductor components, material supplies, local industry, etc. will be required? Find the availability of these resources at UCP and indicate the availability / non-availability. If required resource not available within UCP, submit the hardware requisition form signed by advisor in project office. If possible provide the cost estimates for the non-available items and their origin.

**Miscellaneous**

Provide any other information, which you feel, will be helpful in organizing and conduct of the project work.

**Abstract Story Board and Identification of Characters (For Game-Oriented Projects Only)**

Provide some details about the game you are developing.

**Sketch of Proposed Solution (For Research-based and Hardware-Oriented Projects Only)**

Provide a block diagram depicting the proposed system design. This diagram might be a circuit diagram or a high level diagram showing major components of the system.

**References/Bibliography**

Please give references to the resources you have consulted in finalizing your project topic.