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| ****Annex-D**** **FYP MID Defense Template**  ***Sukkur IBA University***  **Software Requirements Specification (SRS)**  For  [Name of System]  Version [xx]  [Team Members]  [Supervisor]  Date of preparation   |  |  | | --- | --- | | *Project Code* |  | | *Supervisor* |  | | *Co-Supervisor* |  | | *Project Manager* |  | | *Project Team* |  | | *Submission Date* |  | |

***[Instructions]***

* *No section of template should be deleted. You can write ‘Not applicable’ if a section is not applicable to your project. But all sections must exist in the final document.*
* *All comments/examples mentioned in square brackets ([]) are in the template for explanation purposes and must be replaced / removed in final document.*
* *This’ Instruction’ section should also be removed in final document.*
* *MS-Word Reviewing feature must be used to get the document reviewed by PMs or supervisors.*

***Document History***

*[Revision history will be maintained to keep a track of changes done by anyone in the document.]*

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| --- | --- | --- | --- |
| **Version** | **Name of Person** | **Date** | **Description of change** |
| *1.0* | *Tarique Hassan* |  | Initial Draft (SRS) |
| *1.2* | *Suhail Ahmed* |  | Revised Functional Requirements |
| 1.1 | Mr. Khalid Hussain Detho | 25/02/2019 | Reviewed Initial Draft |
|  | *Tarique Hassan* |  | Revised Version of SRS |
|  | *Suhail Ahmed* |  | *Added* |
|  |  |  |  |
|  |  |  |  |

***Distribution List***

*[Following table will contain list of people whom the document will be distributed after every sign-off]*

|  |  |  |
| --- | --- | --- |
| **Name** | **Role** | |
| *Khalid Hussain Detho* | | *Supervisor* |
| *Tarique Hassan* | | *Project Member* |
| *Suhail Ahmed* | | *Project Member* |

***Document Sign-Off***

*[Following table will contain sign-off details of document. Once the document is prepared and revised, this should be signed-off by the sign-off authority.*

*Any subsequent changes in the document after the first sign-off should again get a formal sign-off by the authorities.]*

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| **Version** | **Sign-off Authority** | **Project Role** | **Sign-off Date** |
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1. ***Introduction***

In undergraduate program of computer science department, FYP (Final Year Project) is a project-based course which is an important part of degree for final year students. The objective of FYP is to examine student’s learning efforts, project management skill, teamwork, and performance throughout whole degree program.

In computer science department at Sukkur IBA University, the final year students are offered a project-based course for the last 2 semesters of the degree. In the first phase, students form a group of two, finalize their FYP idea and work together under a supervisor that comes in project allocation process. After that students and supervisors arrange meetings to work further on the project. In these meetings students submit reports (i.e. abstracts, proposals, SRS’s) to their supervisors and get feedback to complete milestones of the project.

This whole manual process is time-consuming and difficult to manage. There should be an easier way to carefully monitor project activities, project records and project progress status. This will assist both supervisors and students to achieve the project milestones on given deadlines. Also, will be helpful for students in getting immediate feedback from their supervisors when they are not available in the campus. A web-based approach is best for monitoring project activities and progress.

* 1. ***Purpose of Document***

The purpose of this document is to provide Software Requirement Specification including functional, non-functional requirements, external interface requirement, scope of the project, and define the stakeholders. It also describes the constraints, operating system environment, and features of the system, and the list of all dependencies related to FYP Management System.

* 1. ***Intended Audience***

The intended audience are FYP Committee including FYP Coordinator, Project supervisor, and Project Groups. This system is for the Computer Science department, Sukkur IBA University to automate the whole manual process.

* 1. ***Document Convention***
* *The font used in this document is Times New Roman*
* *Font size for normal text is 12*
* *For headings font size is 16*
* *For sub-headings font size is 14*
* *All text is of black color*
  1. ***Project Scope***

*Our scope is to develop a web-based application. The fully working system will enable the department to manage whole FYP process including monitoring project progress, track meetings of students with supervisors by taking attendance, and reports submission (proposal, SRS, SDS, report, etc).*

* 1. ***Not In Scope***

*This platform will be for only Computer Science, Sukkur IBA University. The other domain of products is not in its scope.*

***Overall System Description***

* 1. ***Project Background***

Currently, at Sukkur IBA University, Computer Science department is managing records related to FYP manually. FYP coordinator, supervisors, and students are facing difficulty in managing phases like, registration, assessing grades, allocation of projects and supervisors, and submission of reports.

Manual work for the FYP process has several disadvantages:

* Running the manual system reduces efficiency because it requires more human energy and consumes a lot of time.
* Supervisors and students (groups) face difficulties in discussing FYP related problems because there no system which maintains records of their meetings. That results in deadlines delays.
* No record of previously developed projects.
* Managing different phases of FYP process is difficult because there is no such system which provides a single platform to perform activities (i.e. submission, grading, announcements, deadlines).
* FYP work records are mishandled because manual record data is error prone.
* No status of project progress which makes it difficult for supervisor to monitor project deadlines

The proposed system will provide a platform that maintains all FYP work records, meetings, project progress status, and easy to monitor for users. This way supervisors can review, give feedback and validate students’ work.

* 1. ***Project Objectives***

The proposed system, as we will discuss in this section, will replace the manual system and solve these problems by providing a web-based platform to assist the users. Additionally, the system will combine whole FYP process in a single web-based platform which includes, managing user profiles, assessing students, keeping updated with project progress, and maintaining previous and current project records in a user-friendly way. This system can be used as a valuable source in computer science department at Sukkur IBA University so that FYP committees, supervisors, and students (groups) can monitor FYP related activities. The final output of the system will be a web-based final year project (FYP) management system.

* 1. ***Stakeholders***

Stakeholders are important to better understand the constraints and risk of the project. The more stakeholders are involved, the more risks of the project will be reduced. Following are the stakeholders for our project:

* ICT department
* Development team of the project
* FYP Committee, FYP Coordinator, Project Supervisors, Project Group members

***Operating Environment***

*[Describe the environment in which the software will operate, including the hardware platform, operating system, network environment and other software components or applications with which it must coexist.]*

* *Web Application - It includes all operating system such as Windows, Linux, Mac and so on.*
* *It uses mySql database for data storage.*
* *From hardware perspective, it runs on Desktop PC, Laptops and Mobile.*
* *Web-server – where the web app will be hosted*
  1. ***System Constraints***

*[Describe the constraints imposed on the system by the external environment. External environment may be caused by the stakeholders, business conditions, technical issues, academic requirements etc and may include the following:*

* *Software constraints*
  + *MySql Database would be used in the back end.*
* *Hardware constraints*
  + *This software would run on computer, laptop and mobile.*
* *Cultural constraints (includes language etc.)*
  + *Only English Language would be used.*
* *Legal constraints*
  + *Not applicable*
* *Environmental constraints (e.g., the environment where the software will be installed, It could be a noisy environment, which may require that there is no sound event in the project).*
  + *Not applicable*
* *User constraints (e.g., the project is developed for children, so it may be required that the project has more graphic controls rather than textual controls).*
  + *User friendly and highly efficient*
  1. ***Assumptions & Dependencies***
* *User must have internet connection*
* *User must be student, instructor at computer science Sukkur IBA University.*
* *User must have used systems like LMS, CMS.*

1. ***External Interface Requirements***

*[This section is intended to specify any requirements that ensure that the new system will connect properly to external components. Place a context diagram showing the external interfaces at a high level of abstraction.]*

* 1. ***Hardware Interfaces***

*[Describe the characteristics of each interface between the software and hardware components of the system. This description might include the supported device types, the nature of the data and control interactions between the software and the hardware.]*

* Not applicable
  1. ***Software Interfaces***

*[Describe the connections between this system and other external software components (identified by name and version), including databases, operating systems, tools, libraries, and integrated commercial components. Identify and describe the purpose of the data items or messages exchanged among the software components. Describe the services needed and the nature of the inter-component communications. Identify data that will be shared across software components. ]*

* Web Based Dashboard can be used on any of the operating system (Window, Linux, Mac and even on Android and IOs)
  1. ***Communications Interfaces***

*[Describe the requirements associated with any communication functions the system will use, including e-mail, web browser, network communications standards or protocols, electronic forms, and so on. Define any pertinent message formatting. Specify communication security or encryption issues, data transfer rates, and synchronization mechanisms.]*

* Users can communicate about schedule via email.
* Students can submit document/reports over website.

1. ***Functional Requirements***
   1. ***Functional Hierarchy***

*[This section will give a big picture of overall system functionality. The main modules/features of system and their sub-functions will be described here in the form of a functional hierarchy so that, before getting into the use case, audience could grab the idea of overall system functions.]*

* **Register Users**
  + The system shall allow coordinator to register students and instructors.
  + The system shall ask supervisors information including name, email, id, expertise of instructor.
* **Log in**

The system shall ask id and password from users (coordinator, supervisor, and student) to login into the system.

* **View Information**
  + The system shall allow the coordinator to view information of students and instructors.
  + The system shall allow the coordinator to view supervisors and their groups.
  + The system shall allow the students to view information of instructors.
  + The system shall allow instructors to view information of FYP group members under supervision.
  + The system shall allow instructors to update their information.
    - choose supervisor based on their project idea.
* **Announce Dates**
  + The system shall provide G-mail option to coordinator to announce deadlines of project reports, presentations, prototypes, source codes.
  + The system shall allow students to view project deadlines notifications
* **Assign Project**
  + The system shall allow the coordinator to assign projects FYP groups.
* **Allocate Supervisor**
  + The system shall allow the student to request instructors to take them under supervision.
  + The system shall allow supervisors to accept or reject the FYP group.
* **Submit Project Reports** 
  + The system shall allow coordinator to create a slot for submission of abstract, proposal, SRS, SDS, final report, and source code.
  + The system shall allow student to submit project work.
  + The system shall allow supervisor of each group to view those reports and give feedback of approval or changes (if any) and assign grades
  + The system shall allow students to view their grades as well.
* **Track Project Progress**
  + The system shall allow coordinator to view progress of all current projects. Progress include title of project idea, names of group members, and corresponding supervisor, percentage of work done and work remaining.
  + The system shall allow supervisor to view progress of only those projects that are under supervision.
  + The system shall allow students (groups) to view their project progress.
* **Meetings**
  + The system shall allow supervisor to start meeting
  + The system shall mark students present when the meeting starts.
  + The system shall allow supervisor to assign topic and task to students
  + The system shall allow supervisor to view status of topics and tasks assigned in previous meeting
  + The attendance will be week-wise.
  + The system shall automatically alert students in their profile in case absents exceed.
  + The system shall allow students to view absents.
* **Developed Projects Module**
  + The system shall allow coordinator, supervisors, and students to view previously developed FYP projects and related work.
* Project Evaluation
  + The system shall allow FYP committee to evaluate FYP projects and provide feedback.
  1. ***Use Cases***
     1. ***[Title of use case]***

*[Use Case Diagram]*

*[Use Case Description]*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***<Use case Id: Login>*** | | | | |
| ***Use case Id:*** | | UseCase01 | | |
| ***Actors:*** coordinator, supervisor, and student | | | | |
| ***Feature:*** It is driven from Manage Users | | | | |
| ***Pre-condition:*** | | User must have an account (id, password) | | |
| ***Scenarios*** | | | | |
| ***Step#*** | ***Action*** | | | ***Software Reaction*** |
| ***1.*** | Must enter correct login credentials | | | Verify user email and password from database |
| ***2.*** | User click on login button | | | Allow user for login |
| ***3.*** | *User enter incorrect credentials* | | | *Error message (id or password wrong)* |
| ***Alternate Scenarios:*** | | | | |
| ***1a: forget password*** | | | | |
| ***Post Conditions*** | | | | |
| ***Step#*** | ***Description*** | | | |
| ***1*** | After login, coordinator, supervisor, and student can perform their respective Actions. | | | |
|  |  | | | |
| ***Use Case Cross referenced*** | | | <Related use cases, which use or are used by this use case> | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***<Use case Id: Login>*** | | | | |
| ***Use case Id:*** | | UseCase02 | | |
| ***Actors:*** coordinator, supervisor, and student | | | | |
| ***Feature:*** It is driven from Manage Users | | | | |
| ***Pre-condition:*** | | User must have an account (id, password) | | |
| ***Scenarios*** | | | | |
| ***Step#*** | ***Action*** | | | ***Software Reaction*** |
| ***1.*** | Must enter correct login credentials | | | Verify user email and password from database |
| ***2.*** | User click on login button | | | Allow user for login |
| ***3.*** | *User enter incorrect credentials* | | | *Error message (id or password wrong)* |
| ***Alternate Scenarios:*** | | | | |
| ***1a: forget password*** | | | | |
| ***Post Conditions*** | | | | |
| ***Step#*** | ***Description*** | | | |
| ***1*** | After login, coordinator, supervisor, and student can perform their respective Actions. | | | |
|  |  | | | |
| ***Use Case Cross referenced*** | | | <Related use cases, which use or are used by this use case> | |

1. ***Non-functional Requirements***
   1. ***Performance Requirements***

*[The performance characteristics of the system that are required by the business should be outlined in this section. Performance characteristics include the speed, precision, concurrency, capacity, safety, and reliability of the software. These characteristics define the performance of the project.]*

* Software would response to clicks within 2 seconds
* The design will be responsive
  1. ***Safety Requirements***

*[Specify the requirements that are concerned with possible loss, damage, or harm that could result from the use of the system. Define any safeguards or actions that must be taken, as well as potentially dangerous actions that must be prevented. Identify any safety certifications, policies, or regulations to which the system must conform.]*

*Not applicable*

* 1. ***Security Requirements***

*[Specify any requirements regarding security, integrity, or privacy issues that affect the use of the system and protection of the data used or created by the system. Define all user authentication or authorization requirements, if any. Identify any security or privacy policies or certifications the system must satisfy.]*

* The system shall ask students, supervisors and coordinator to authenticate themselves for accessing the system.
  1. ***User Documentation***

*Not applicable*

1. ***References***

*[This section should provide a complete list of all documents referenced at specific point in time. Each document should be identified by title, report number (if applicable), date, and publishing organization. Specify the sources from which the references can be obtained. (This section is like the bibliography in a published book).]*

1. Leung, C.-H., et al., *The Development of a Final Year Project Management System for Information Technology Programmes.* 2015. **494**: p. 86-97.

2. Bakar, M.A., et al., *Final Year Supervision Management System as a Tool for Monitoring Computer Science Projects.* Procedia - Social and Behavioral Sciences, 2011. **18**: p. 273-281.

3. IONUT NEAGU, F.C. *Angular vs React vs Vue: Which Framework to Choose in 2020*. 2020 [cited 2020 november 20]; Available from: https://[www.codeinwp.com/blog/angular-vs-vue-vs-react/#license](http://www.codeinwp.com/blog/angular-vs-vue-vs-react/#license).

4. Feoktistov, I. *Angular vs. React vs. Vue.js – choosing a JavaScript framework for your project*. 2020 [cited 2020 november 20]; Available from: https://relevant.software/blog/angular-vs-react-vs-vue-js-choosing-a-javascript-framework-for-your-project/#Angular,\_React,\_Vue\_js\_%E2%80%93\_then\_and\_now.

5. Gr¨unwaldt, J.-M., *A Comparison of Modern Backend Frameworks*

*Protections against Common Web Vulnerabilities.* 2019.

6. Nurture, L. *Django vs Laravel vs Node js*. 2019 [cited 2020 november 20]; Available from: https://[www.letsnurture.com/blog/django-vs-laravel-vs-node-js.html](http://www.letsnurture.com/blog/django-vs-laravel-vs-node-js.html).

7. Kaur, M. *QL vs NoSQL : MySQL vs MongoDB — The Difference*. 2018 [cited 2020 november 20]; Available from: https://medium.com/@mandeepkaur1/sql-vs-nosql-mysql-vs-mongodb-the-difference-6145e437cd40.

1. ***Appendices***

*[This section should include supporting detail that would be too distracting to include in the main body of the document.]*

**FYP Mid Defense Template**

***Sukkur IBA University***

**Software Design Specification (SDS)**

For

[Name of System]

Version [xx]

[Team Members]

[Supervisor]

Date of preparation

|  |  |
| --- | --- |
| *Project Code* |  |
| *Supervisor* |  |
| *Co-Supervisor* |  |
| *Project Manager* |  |
| *Project Team* |  |
| *Submission Date* |  |

1. Introduction of Design Document

2. Entity Relationship Diagram (ERD)

3. Sequence Diagrams

4. Architecture Design Diagram

5. Database Diagram

6. Class Diagram

7. Interface Design

8. Test Cases

**FYP Mid Defense SRS/SDS Evaluation Form and Rubrics**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Criteria** | **1 (Marks 0-1)** | **2 (Marks 2-4)** | **3 (Marks 5-7)** | **4 (Marks 8-9)** | **5 (Marks 10)** |
| **R1**  **Project Scope** | Not written | Project Scope is identified and written in vague way and is it very hard to understand | Project scope is identified and written in ordinary way and conveys the massage | Project scope is identified and written in good way and it clearly defines the scope, however it can be improved to achieve excellency | Project scope is identified and written in excellent and concise way. No further improvements are required |
| **R2**  **Overall Description** | Not written | Overall description is written in vague way and is it missing any of the two required points i.e. Product perspective and design constraints | Overall description is written in ordinary way and defines the required points i.e. Product perspective and design constraints in normal way. Product perspective is not formulated and analyzed accurately | Overall description is written in good way. Product perspective does not lack any required information. All the necessary design constraints are well derived and formulated | Overall description is written in excellent and concise way. No further improvements are required in this regard |
| **R3**  **External Interface Requirements** | Not written | Software, user, hardware and communication interface requirements are not satisfactory. Either all of them are not properly defined or mentioned in vague way | These external interface requirements are satisfactory. They have been defined in ordinary way with a lot of improvements required to meet the criteria | All these external requirements are described in good way. All required information is properly conveyed. However, still there is room for improvements | Overall external interface requirements are written in excellent and concise way. No further improvements are required in this regard |
| **R4**  **Functional Requirements** | Not written | System features which covers the functional requirements of the product are not satisfactory. Very difficult to understand. Did not cover all the functional requirements of the system. They have been defined in vague way | All the identified functional requirements are satisfactory; however they have been described with ordinary details. However, there is repetition in these requirements and includes ambiguities. There are many errors in UML notations. | All the functional requirements are identified and written in good way; including the important details. There is no repetition in these requirements. However these can be further improved by removing the inconsistencies and ambiguities. There are very few UML notation issues | Functional requirements have been covered in excellent and clear way with all the needed details. There exists no repetition. All the ambiguities and inconsistencies have been removed. All the UML notations have been used in correct way |
| **R5**  **Non-Functional Requirements** | Not written | Non-functional requirements of the system have not been covered in proper way. There are a lot of deficiencies and does not achieve the basic level of satisfaction. Very difficult to understand | The non-functional requirements are identified and described in satisfactory way. . However, there is repetition in these requirements and includes ambiguities. There is no proper categorization of various types of non-functional requirements | Non-functional requirements are identified and classified properly and written in a good way. Performance, Reliability, Security, Efficiency, Robustness and maintainability etc. are clearly defined. However, there is still room for improvement. | Non-Functional requirements have been covered in excellent and clear way with all the needed details. There exists no repetition. All the ambiguities and inconsistencies have been removed. They are well-organized, prioritized and written in testable form |
| **R6**  **Grammar, and spelling** | Very Serious mistakes in grammar and language. There are a lot of spelling mistakes and typos | Serious mistakes in grammar and spelling. | Some grammar and spelling mistakes. Also not appropriate wording at some places. | Very minor grammar, spelling and language issues. The improvements are possible by using more appropriate wording | Excellent grammar used. No spelling mistakes at all |
| **R7**  **Expression Tone** | Very hard to understand. Tone not at all appropriate | Hard to follow or poor word choices. Tone also non-professional | Easy to read and understandable. However, still the tone is not professional | Easy to read and understandable. Good expression tone is used. Professional tone is used. However, there is room for improvements | Pleasure to read. Tone is concise, clear and highly professional. No further improvements are needed. |

**SRS/SDS Evaluation Form**

Project Title \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student Names \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **PLO** | **S No** | **Description** | **Weight** | **Performance**  **(1 – 5)** | **Marks** |
| **PLO-2: Problem Analysis** | R1 | **Project Scope** | **10** | **1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐** |  |
| **PLO-2: Problem Analysis** | R2 | **Overall Description** | **10** | **1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐** |  |
| **PLO-3: Design/ Development of Solution** | R3 | **External Interface Requirements** | **10** | **1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐** |  |
| **PLO-4: Investigation** | R4 | **Functional Requirements** | **10** | **1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐** |  |
| **PLO-4: Investigation** | R5 | **Non-Functional Requirements** | **10** | **1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐** |  |
| **PLO-10: Communication** | R6 | **Grammar, and spelling** | **10** | **1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐** |  |
| **PLO-10: Communication** | R7 | **Expression Tone** | **10** | **1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐** |  |

Evaluator Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature with Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Comments \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**FYP Mid Defence Presentation Evaluation Form and Rubrics**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Criteria** | **1 (Marks 0-1)** | **2 (Marks 2-4)** | **3 (Marks 5-7)** | **4 (Marks 8-9)** | **5 (Marks 10)** |
| **R1**  **Analysis and approach** | Unable to plan and set objectives for the realization of the project.  Correct approach to solve the project is not followed | In between | Adequate analysis of the project. Objectives have been set, but strategies to follow are not clearly stated.  Approach taken to solve the problem is satisfactory. | In between | Complete analysis of the project has been done. Objectives have been set. Strategies to follow have been defined.  Approach taken to solve the problem has been chosen after thorough analysis. |
| **R2**  **Novelty and Creativity** | Description of unmet need or problem the project caters to is missing.  The proposed solution is not novel.  The project appears trivial. | In between | Details of the project novelty are briefly discussed.  The novelty of the proposed solution is marginal. | In between | Details of unmet needs the project caters to are there. Potential customers have been identified.  The proposed solution is novel  The project solves complex engineering problem.  The project can be included in the startup stream |
| **R3**  **Subject Knowledge** | Student has no knowledge of both problem and solution. Cannot answer basic questions. | In between | Student is uncomfortable with information. Seems novice and can answer basic questions only. | In between | Student has presented full knowledge of both problem and solution. Answers to questions are strengthen by rationalization and explanation |
| **R4**  **Timeline and Implementation Progress** | Timeline as defined in the project proposal is not followed.  Milestones have not been achieved. | In between | Timeline as defined in the project proposal is followed for the most part.  Some of the milestones have been achieved | In between | All milestones are completed according to the timeline defined in project proposal |
| **R5**  **Team work** | Only one member appears to be actively working on the project. | In between | Not all members have contributed to the project. Work division is not clearly mentioned. | In between | All members contributed.  Work division clearly mentioned |

**FYP Mid Defence Presentation Evaluation Form**

Project Title \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student Names \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **PLO** | **S No** | **Description** | **Weight** | **Performance**  **(1 – 5)** | **Marks** |
| **PLO-4: Investigation** | R1 | **Analysis and Approach** | **10** | **1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐** |  |
| **PLO-12: Lifelong Learning** | R2 | **Novelty and Creativity** | **10** | **1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐** |  |
| **PLO-1: Computing Knowledge** | R3 | **Subject Knowledge** | **10** | **1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐** |  |
| **PLO-11: Project Management** | R4 | **Timeline** | **10** | **1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐** |  |
| **PLO-9: Individual & Team Work** | R5 | **Team work** | **10** | **1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐** |  |
|  |  | **Understanding of the domain & Quality of work completed up till now?** | **10** | **1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐** |  |
|  |  | **Implementation Progress: Has the team achieved the milestones up till the mid-defense?** | **10** | **1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐** |  |

Evaluator Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature with Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Comments \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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