

**School of Computing**

**SRM IST, Kattankulathur – 603 203**

**Course Code: 21CSC303J**

**Course Name: Software Engineering and Project Management**

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| **Experiment No** | 1 |
| **Title of Experiment** | To identify the Software Project, Create Business Case, Arrive at a Problem Statement |
| **Name of the candidate** | Ponnuri Aniruddha |
| **Team Members** | Vamshi Gadde (RA2112704010017)  Y Shabanya Kishore (RA2112704010018) |
| **Register Number** | RA2112704010015 |
| **Date of Experiment** | 18/01/2024 |

**Mark Split Up**

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| --- | --- | --- | --- |
| **S.No** | **Description** | **Maximum Mark** | **Mark Obtained** |
| 1 | Exercise | 5 |  |
| 2 | Viva | 5 |  |
| **Total** | | **10** |  |

**Staff Signature with date**

**Aim**

To Frame a project team, analyze and identify a Software project. To create a business case and Arrive at a Problem Statement for the SRM RESEARCH HUB

**Team Members:**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Register No** | **Name** | **Role** |
| **1** | **RA2112704010015** | Ponnuri Aniruddha | **Lead/Rep** |
| **2** | **RA2112704010018** | Y Shabanya Kishore | **Member** |
| **3** | **RA2112704010017** | Vamshi Gadde | **Member** |

**Project Title:**

**SRM RESEARCH HUB**

**Project Description**

The Research Paper Repository is a web-based platform designed to facilitate the management and access of research papers. It provides users with the ability to explore and contribute to a curated collection of academic publications, with a focus on papers published by SRM Institute of Science and Technology (SRMIST) researchers. The platform aims to streamline the process of discovering, sharing, and collaborating on research within the academic community.

**ONE PAGE BUSINESS CASE TEMPLATE**

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|  | **DATE** | 18/01/2024 |
|  | **SUBMITTED BY** | Ponnuri Aniruddha |
|  | **TITLE / ROLE** | Developer |
| **THE PROJECT**  In bullet points, describe the problem this project aims to solve or the opportunity it aims to develop. | | | |
| * Current academic research papers are scattered across various sources, making it difficult for researchers to discover and access relevant publications. * SRM Institute of Science and Technology (SRMIST) research papers may not receive adequate exposure beyond traditional academic circles, hindering their impact and recognition. * Existing methods for sharing and collaborating on research papers are often cumbersome and lack user-friendly features, leading to inefficiencies in knowledge dissemination and collaboration. * Researchers require a secure and intuitive platform to access, contribute, and collaborate on research papers while ensuring data privacy and integrity. * By providing a centralized repository for research papers, the project aims to facilitate collaboration among researchers, students, and academic professionals, fostering innovation and knowledge exchange within the academic community. | | | |

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| **THE HISTORY**  In bullet points, describe the current situation. |
| * Academic research papers from SRM Institute of Science and Technology (SRMIST) are scattered across various sources including academic journals, conference proceedings, and institutional repositories. * Researchers, students, and academic professionals struggle to discover and access relevant SRMIST research papers due to the lack of a centralized platform. * Existing methods for sharing and collaborating on research papers are often inefficient and fragmented, leading to challenges in knowledge dissemination and collaboration. * SRMIST research papers may not receive adequate visibility and recognition beyond traditional academic circles, limiting their impact and contribution to the broader research community. |
| **LIMITATIONS**  List what could prevent the success of the project, such as the need for expensive equipment, bad weather, lack of special training, etc. |
| * Limited access to research papers: The project's success may be hindered if there are restrictions or limitations on accessing SRM Institute of Science and Technology (SRMIST) research papers from official sources. * Technical challenges: Complexities in integrating with SRMIST's official website or obtaining data from various websites may pose technical hurdles to the project's development and functionality. |
| **APPROACH**  List what is needed to complete the project. |
| Research and Analysis:   * Conduct research on existing academic repositories and collaboration platforms. * Analyze user requirements and preferences within the SRM Institute of Science and Technology (SRMIST) community. * Investigate technical feasibility and compatibility with SRMIST's official website and data sources.   Development Resources:   * Determine the technologies and frameworks needed for web application development. * Set up development environments and version control systems for collaborative coding.   Data Integration:   * Establish connections with SRMIST's official website or data sources to fetch research paper metadata. * Develop scripts to retrieve and parse data from external sources.` * Implement a data cleansing process to ensure that the data conforms to the database structure.   Database Management:   * Design and implement a scalable database schema for storing user information, research papers, and metadata. * Optimize database queries and indexing for efficient data retrieval and storage. |

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| **BENEFITS**  In bullet points, list the benefits that this project will bring to the organization. |
| * Centralized repository for research papers enhances accessibility and visibility of SRM Institute of Science and Technology (SRMIST) publications. * Facilitates collaboration and knowledge sharing among researchers, students, and academic professionals within the institution. * Streamlines the process of discovering, accessing, and citing relevant research papers, thereby fostering academic excellence and innovation. * Enhances the reputation and recognition of SRMIST as a hub for cutting-edge research and scholarly contributions. * Encourages interdisciplinary collaboration and cross-departmental engagement by providing a platform for interdisciplinary research exploration. * Strengthens the institution's research ecosystem by promoting transparency, accountability, and integrity in scholarly communication. * Empowers researchers and students to showcase their work and contributions to the broader academic community, leading to increased citations and impact. * Establishes SRMIST as a leader in digital innovation and academic excellence by leveraging modern technologies and best practices in research dissemination and collaboration. |

Result:

Thus, the project team formed, the project was described, the business case was prepared and the problem statement was arrived at.