

Department of Information Technology

100004/IT622T-Miniproject

Weekly Report

2020-24 Batch

April - July 2023

**ONLINE BLOOD DONATION SYSTEM**

Guided by Submitted by



Dr. Lakshmi K S

Assistant Professor

Dept. of IT

RSET

**RAJAGIRI SCHOOL OF ENGINEERING &**

**TECHNOLOGY(AUTONOMOUS)**

**VISION**

To evolve into a premier technological and research institution, molding eminent professionals with creative minds, innovative ideas and sound practical skill, and to shape a future where technology works for the enrichment of mankind.

**MISSION**

To impart state-of-the-art knowledge to individuals in various technological disciplines and to inculcate in them a high degree of social consciousness and human values, thereby enabling them to face the challenges of life with courage and conviction.

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**PROGRAMME: INFORMATION TECHNOLOGY**

**VISION**

To evolve into a department of excellence in information technology by the creation and exchange of knowledge through leading-edge research, innovation and services, which will in turn contribute towards solving complex societal problems and thus building a peaceful and prosperous mankind.

**MISSION**

To impart high-quality technical education, research training, professionalism and strong ethical values in the young minds for ensuring their productive careers in industry and academia so as to work with a commitment to the betterment of mankind.

**Program Outcomes (PO)**

Information Technology Program Students will be able to:

**PO1 - Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**PO2 - Problem analysis:** Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**PO3 - Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**PO4 - Conduct investigations of complex problems:** Use research- based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**PO5 - Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

**PO6 - The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**PO7 - Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**PO8 - Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO9 - Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO10 - Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**PO11 - Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one’s own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**PO12 - Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

**Program Specific Outcomes (PSO)**

Information Technology Program Students will be able to:

**PSO1:** Acquire skills to design, analyse and develop algorithms and implement those using high-level programming languages.

**PSO2:** Contribute their engineering skills in computing and information engineering domains like network design and administration, database design and knowledge engineering.

**PSO3:** Develop strong skills in systematic planning, developing, testing, implementing, and providing IT solutions for different domains which helps in the betterment of life.

**Program Educational Objectives (PEO)**

Graduates of Information Technology program shall:

**PEO1:** Have strong technical foundation for successful professional careers and to evolve as key-players/ entrepreneurs in the field of information technology.

**PEO2:** Excel in analysing, formulating and solving engineering problems to promote lifelong learning, to develop applications, resulting in the betterment of the society.

**PEO 3:** Have leadership skills and awareness on professional ethics and codes.

**Course Outcomes [COs]**:

After successful completion of the course, the students will be able to:

|  |  |
| --- | --- |
| CO1 | Make use of acquired knowledge within the selected area of technology for project development. |
| CO2 | Identify, discuss, and justify the technical aspects and design aspects of the project with a systematic approach. |
| CO3 | Interpret, improve, and refine technical aspects for engineering projects. |
| CO4 | Associate with a team as an effective team player for the development of technical projects. |
| CO5 | Report effectively the project related activities and findings. |

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# Mapping of course outcomes with program outcomes

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
| CO1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | - | - | - | 3 |
| CO2 | 3 | 3 | 3 | 3 | 3 | - | 2 | 3 | - | 3 | 2 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | - | 2 | 3 | 3 |
| CO4 | 3 | 3 | 2 | 2 | - | - | - | 3 | 3 | 3 | 3 | 3 |
| CO5 | 3 | - | - | - | 2 | - | - | 3 | 2 | 3 | 2 | 3 |

**Department of Information Technology, RSET**

**B.Tech. Information Technology**

100004/IT622T-Miniproject

S6 – IT (2020 Admission)

INFORMATION SUMMARY SHEET

|  |  |
| --- | --- |
| 1. Title of the Project | Online Blood Donation System |
| 2. Name of the Students | 1. Cyriac John Nidhiry  2. Annit Jijo  3. Megha Milton  4. Aswin Unnikrishnan |
| 3. Name of the Guide | Dr. Lakshmi K S |
| 4. Abstract of the Project | With the increasing demands for blood and the growing complexities associated with matching donors and recipients, an efficient and accessible system is crucial to save lives effectively. This online blood donation system offers a user-friendly interface that facilitates the entire donation process. Donors can easily register and create profiles, providing essential information such as blood type, contact details, and availability for donation. By automating these procedures, the online platform significantly reduces the me and effort required for manual coordination.  The benefits of an online blood donation system are manifold. Firstly, it expands the reach and accessibility of potential donors, overcoming geographical limitations and enabling a wider pool of blood donors. Recipients gain access to a larger database of compatible donors, increasing the chances of finding a suitable match swiftly. Secondly, the system facilitates real-me communication and coordination, allowing quick responses during emergencies, minimizing delays, and potentially saving lives. The system can have an admin user which accepts the requests placed by various donors and connect them with the recipients or hospitals as when required.  The frontend of the web application can be build using HTML, CSS and  JAVASCRIPT and backend server-side framework can be build using Flask. The database can be created and managed using MySQL or MongoDB and the web application can be hosted through AWS or Heroku. |
| 5. Type of the Project | Database Oriented Project |
| 6. List of front-end tools | HTML, CSS, Javascript |
| 7. Database | MySQL |
| 8. Software Engineering Approach | Waterfall method |
| 9. Any other specific  details, if any |  |

Signature of the Students Signature of the Guide

Date:

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**DEPARTMENT OF INFORMATION TECHNOLOGY**

**Batch 2020-2024, April-July 2023**

**Miniproject – PROGRESS EVALUATION- WEEK 1**

|  |  |
| --- | --- |
| **Project Title** | Online Blood Donation System |
| **Project Team**  **Members** | 1. Cyriac John Nidhiry  2. Annit Jijo  3. Megha Milton  4. Aswin Unnikrishnan |
| **Guide** | Dr. Lakshmi K S |
| **Date** |  |
| **Remarks** |  |

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**Miniproject – PROGRESS EVALUATION- WEEK 2**

|  |  |
| --- | --- |
| **Project Title** | Online Blood Donation System |
| **Project Team**  **Members** | 1. Cyriac John Nidhiry  2. Annit Jijo  3. Megha Milton  4. Aswin Unnikrishnan |
| **Guide** |  |
| **Date** |  |
| **Remarks** |  |

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**Miniproject – PROGRESS EVALUATION- WEEK 3**

|  |  |
| --- | --- |
| **Project Title** |  |
| **Project Team**  **Members** |  |
| **Guide** |  |
| **Date** |  |
| **Remarks** |  |

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**Miniproject – PROGRESS EVALUATION- WEEK 4**

|  |  |
| --- | --- |
| **Project Title** |  |
| **Project Team**  **Members** |  |
| **Guide** |  |
| **Date** |  |
| **Remarks** |  |

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**Miniproject – PROGRESS EVALUATION- WEEK 5**

|  |  |
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| **Project Title** |  |
| **Project Team**  **Members** |  |
| **Guide** |  |
| **Date** |  |
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**Miniproject – PROGRESS EVALUATION- WEEK 6**

|  |  |
| --- | --- |
| **Project Title** |  |
| **Project Team**  **Members** |  |
| **Guide** |  |
| **Date** |  |
| **Remarks** |  |

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**Batch 2020-2024, April-July 2023**

**Miniproject – PROGRESS EVALUATION- WEEK 7**

|  |  |
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| **Project Title** |  |
| **Project Team**  **Members** |  |
| **Guide** |  |
| **Date** |  |
| **Remarks** |  |

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**Batch 2020-2024, April-July 2023**

**Miniproject – PROGRESS EVALUATION- WEEK 8**

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| **Project Title** |  |
| **Project Team**  **Members** |  |
| **Guide** |  |
| **Date** |  |
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**Batch 2020-2024, April-July 2023**

**Miniproject – PROGRESS EVALUATION- WEEK 9**

|  |  |
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| **Project Title** |  |
| **Project Team**  **Members** |  |
| **Guide** |  |
| **Date** |  |
| **Remarks** |  |

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**Batch 2020-2024, April-July 2023**

**Miniproject – PROGRESS EVALUATION- WEEK 10**

|  |  |
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| **Project Title** |  |
| **Project Team**  **Members** |  |
| **Guide** |  |
| **Date** |  |
| **Remarks** |  |

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**Miniproject – PROGRESS EVALUATION- WEEK 11**

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| **Project Title** |  |
| **Project Team**  **Members** |  |
| **Guide** |  |
| **Date** |  |
| **Remarks** |  |

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**Batch 2020-2024, April-July 2023**

**Miniproject – PROGRESS EVALUATION- WEEK 12**

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| **Project Title** |  |
| **Project Team**  **Members** |  |
| **Guide** |  |
| **Date** |  |
| **Remarks** |  |

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**Batch 2020-2024, April-July 2023**

**Miniproject – PROGRESS EVALUATION- WEEK 13**

|  |  |
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| **Project Title** |  |
| **Project Team**  **Members** |  |
| **Guide** |  |
| **Date** |  |
| **Remarks** |  |

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**Batch 2020-2024, April-July 2023**

**Miniproject – PROGRESS EVALUATION- WEEK 14**

|  |  |
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| **Project Title** |  |
| **Project Team**  **Members** |  |
| **Guide** |  |
| **Date** |  |
| **Remarks** |  |

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