IMPLEMENTATION OF QUEUES- AT PETROL BUNK.

A Case Study Report submitted to

SREE VIDYANIKETHAN ENGINEERING COLLEGE.

in Partial Fulfillment of the Requirements for the Award of the degree of

BACHELOR OF TECHNOLOGY
IN
COMPUTER SCIENCE AND SYSTEMS ENGINEERING.

Submitted by

S.K SAMEERA **(21121A15A3)**

Under the Guidance of

Mr.
M.RAMU

Department of Computer Science and Systems Engineering
Sree Vidyanikethan Engineering College (Autonomous)
Sree Sainath Nagar, Tirupati – 517 102
(2022-2023)

SREE VIDYANIKETHAN ENGINEERING COLLEGE
(AUTONOMOUS)
Sree Sainath Nagar, Tirupati

DEPARTMENT OF COMPUTER SCIENCE AND SYSTEMS ENGINEERING

CERTIFICATE

This is to certify that the case study report entitled

"IMPLEMENTATION OF QUEUES AT PETROL BUNK."

is the Bonafide work done by

S.K SAMEERA **(21121A15A3)**

in the Department of **Computer Science and Systems Engineering**, and submitted to sree vidyanikethan engineering college in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in Computer Science and Systems Engineering during the academic year 2022-2023. This work has been carried out under my supervision. The results of this case study work have not been submitted to any university for the award of any degree or diploma.

Guide:

Mr. M.Ramu
Assistant Professor
Dept. of CSSE

Head:

Dr. K. Ramani
Professor & Head
Dept. of CSSE

INTERNAL EXAMINER

EXTERNALEXAMINER

DEPARTMENT OF COMPUTER SCIENCE AND SYSTEMS ENGINEERING

VISION AND MISSION

VISION

- **To become a Centre of excellence in Computer Sciences and Systems Engineering through Teaching, Training and Innovation to produce high quality engineering professionals who can solve the growing complex problems of the society and industry.**

MISSION

- **Established with cause of development of technical education in advanced Computers Sciences and Systems Engineering with applications to systems there by serving the society and Nation.**
- **Transfer of knowledge through contemporary curriculum and fostering faculty and student development.**
- **Create keen interest for research and innovation among students and faculty by understanding the needs of the society and industry.**
- **Skill Development among diversity of students in technical in technical domains and profession for development of systems and processes to meet the demands of the industry and research.**
- **Imbibing values and ethics in students for prospective and promising engineering and develop a sense of respect for all.**

Program Educational Objectives (PEO's)

After few years of graduation, the graduates of B.Tech (CSSE) will:

1. Demonstrate competencies in the Computer Science domain and Management with an ability to comprehend, analyze, design and create software systems for pursuing advanced studies in the areas of interest.

2. Evolve as entrepreneurs or be employed by acquiring required skill sets for developing computer systems and solutions in multi-disciplinary areas.

3. Exhibit progression and professional skill development in Computer programming and systems development with ethical attitude through life-long learning.

Program Specific Outcomes (PSO's)

On successful completion of the Program, the graduates of B. Tech (CSSE) program will be able to:

PSO1 Employ Systems Approach to model the solutions for real life problems, design and develop software systems by applying Modern Tools.

PSO2 Develop solutions using novel algorithms in High Performance Computing and Data Science.

PSO3 Use emerging technologies for providing security and privacy to design, deploy and manage network systems.

Program Outcomes (PO's)

1. Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems (**Engineering knowledge**).

2. Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences (**Problem analysis**).

3. 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 (**Design/development of solutions**).

4. 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 (**Conduct investigations of complex problems**).

5. 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 (**Modern tool usage**)

6. 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 (**The engineer and society**)

7. Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development (**Environment and sustainability**).

8. Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice (**Ethics**).

9. Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings (**Individual and team work**).

10. 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 (**Communication**).

11. 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 (**Project management and finance**).

12. 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 (**Life-long learning**).

DECLARATION

We hereby declare that this case study report titled **"IMPLEMENTING QUEUES AT PETROL BUNK"** is a genuine work carried out by us, in **B.Tech** ***(Computer Science and Systems Engineering)*** degree course of **sree vidyanikethan engineering college** and has not been submitted to any other course or University for the award of any degree by us.

I declare that this written submission represents our ideas in our own words and where others' ideas or words have been included, we have adequately cited and referenced the original sources. We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea / data / fact / source in our submission. We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

Signature of the student(s)