

Experiment No. 1

SEMESTER: V (2024-2025)

DATE OF DECLARATION: 11-07-24

SUBJECT: SE

DATE OF SUBMISSION: 18-07-24

NAME OF THE STUDENT: Shaun Menezes

ROLL NO: 40

AIM	To prepare a problem statement and proposed solution for “ Inefficiency in Timely Announcement of Holidays for Educational Institutions in Flood-Prone Areas ”
LEARNING OBJECTIVE	The student will learn to formulate a problem statement with proposed solution.
LEARNING OUTCOME	The students will be able to understand the software engineering concepts and prepare the problem statement & proposed solution for the selected case study
COURSE OUTCOME	CSL501.1: Students will be able to understand the software engineering concepts and prepare the problem statement & proposed solution for the selected case study
PROGRAM OUTCOME	<p>PO1: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.</p> <p>PO9: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.</p> <p>PO10: 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.</p>
BLOOM'S TAXONOMY LEVEL	Knowledge Understanding
THEORY	<p>The problem statement is the initial starting point for a project. It is basically a one to three page statement that everyone on the project agrees with that describes what will be done at a high level. The problem statement is intended for a broad audience and should be written in non-technical terms. It helps the non-technical and technical personnel communicate by providing a description of a problem. It doesn't describe the solution to the problem.</p> <p>The input to requirement engineering is the problem statement prepared by customer. It may give an overview of the existing system along with broad expectations from the new system.</p>

	<p>The first phase of requirements engineering begins with requirements elicitation i.e. gathering of information about requirements. Here, requirements are identified with the help of customer and existing system processes. So from here begins the preparation of problem statement.</p> <p>So, basically a problem statement describes what needs to be done.</p>																		
LAB EXERCISE	<p>Problem Statement</p> <p>The delayed announcement of holidays for colleges and schools in low-lying, flood-prone areas escalates safety risks for students and staff. Floodwaters compromise transportation routes, increasing the likelihood of accidents and injuries. Moreover, the late notice disrupts academic schedules and creates logistical challenges for parents and guardians. Timely communication is crucial to ensure the safety and well-being of the school community, mitigate disruptions, and allow for adequate planning and response to natural disasters. An efficient, proactive approach to announcing holidays in such circumstances is essential to safeguarding education continuity and community welfare.</p> <p>Proposed Solution</p> <p>Imagine a world where educational institutions in flood-prone areas have a proactive communication system ensuring student and staff safety. Timely holiday announcements prevent accidents and academic disruptions, allowing parents to plan ahead and maintain their children's safety.</p> <p>To achieve this, we propose developing an Automated Emergency Notification System (AENS). This system integrates with local flood monitoring services, automatically triggering holiday announcements based on real-time data. Using multiple channels like SMS, email, and social media, the AENS ensures prompt notification. Customizable settings and a user-friendly interface make it easy for administrators to manage alerts, while backup systems ensure reliability. This proactive approach fosters a safer, more resilient educational environment, bridging the gap between current reactive measures and the desired efficient communication strategy.</p> <p>Group Details</p> <table border="1"> <thead> <tr> <th>Sr. No.</th><th>Roll No.</th><th>Name of the Batch</th><th>Name of the Student</th></tr> </thead> <tbody> <tr> <td>1.</td><td>34</td><td>B</td><td>Aibal Biju</td></tr> <tr> <td>2.</td><td>35</td><td>B</td><td>Ramya Kulkarni</td></tr> <tr> <td>3.</td><td>40</td><td>B</td><td>Shaun Menezes</td></tr> </tbody> </table>			Sr. No.	Roll No.	Name of the Batch	Name of the Student	1.	34	B	Aibal Biju	2.	35	B	Ramya Kulkarni	3.	40	B	Shaun Menezes
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REFERENCES	<ol style="list-style-type: none"> http://www.wikihow.com/Write-a-Problem-Statement http://cse.mait.ac.in/pdf/LAB%20MANUAL/EVEN%20SEM/ETCS%20354%20Object%20Oriented%20Software%20Engineering.pdf 																		