

Velammal College of Engineering and Technology, Madurai
Department of Information Technology
Innovative Teaching Methodology

Name of the course: Software Testing

Topic: Load and Stress Testing

Course Incharge: Dr. R. Kavitha

Innovative Method: Role Play



The **role play** method is used to demonstrate the concepts of **load and stress testing**. To illustrate this, one student is selected and a load of three biscuits is given to be eaten. This initial quantity is consumed quickly and comfortably, representing a system operating under a normal load.

Subsequently, the load is increased by two more biscuits, pushing the student toward her capacity. After these have also been consumed, a final load of two additional biscuits is given. At this point, the student refuses, indicating that her maximum capacity has been reached. The act of testing her up to this limit simulates Load Testing, which is the process of checking a system's performance up to its specified maximum capacity.

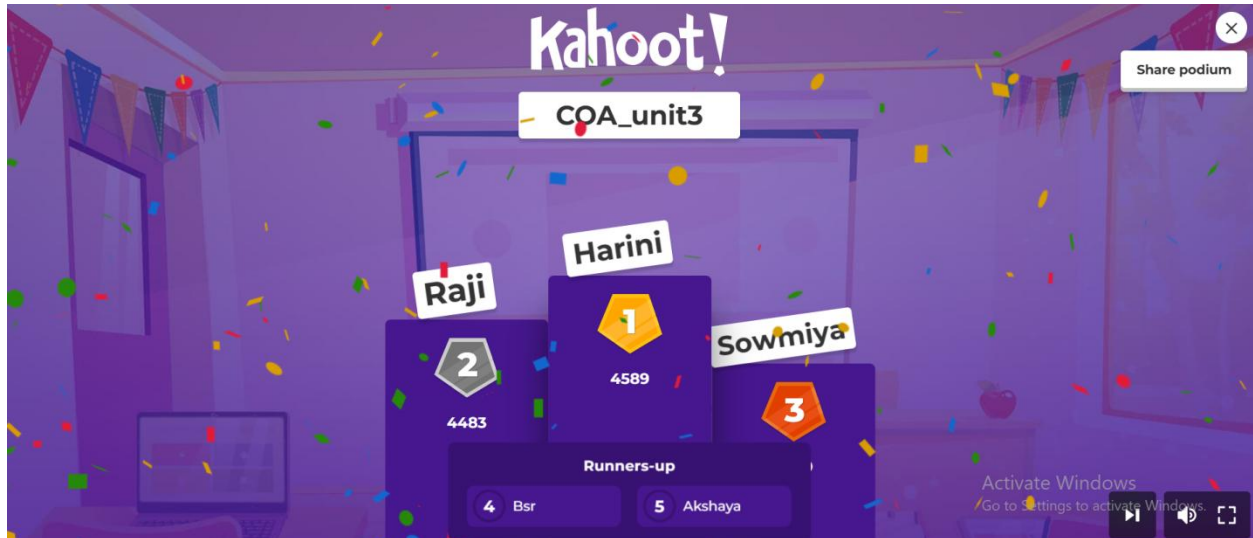
When the student is further pressured to consume the final biscuits, she reports feeling nauseous. This represents a system failure under excessive demand. This final phase demonstrates Stress Testing, which involves evaluating a system's behavior and error-handling capabilities beyond its normal operational capacity to determine its breaking point.

Name of the course: Computer Organization and Architecture

Topic: Processor and Control

Course Incharge: Mrs. A.Vinora

Innovative Method: Kahoot Quiz



Kahoot is an interactive game-based learning tool that helps teachers make lessons more engaging and effective. For the unit **Processor and Control**, using Kahoot quizzes can support student understanding by turning key concepts into fun, competitive questions. Topics such as the functions of the CPU, control unit operations, ALU tasks, instruction cycle, registers, and data flow can be reinforced through quick multiple-choice or true/false questions.

During a Kahoot session, students respond in real time using their mobiles or laptops. This immediate participation helps teachers identify which concepts are well understood and which need more explanation. The instant feedback and scoreboard also motivate students to stay focused and actively learn. Overall, Kahoot quizzes make complex topics in processor and control easier to grasp and help create an engaging learning environment. The quiz session helped students learn their concepts in a gamified manner.