

PROJECT REQUIREMENTS DOCUMENT	
Project Name	ENSE 375: Howitzer Firing Simulator
Team Members	Jasmeet Singh, Ahras Ali, Bulbul Arora
Functional Requirements	
<p><b>Minimum Viable Product 1 (MVP 1):</b></p> <ul style="list-style-type: none"> <li>• The obtain the basic functionality of the simulator such as: <ul style="list-style-type: none"> <li>• Loading the Simulator</li> <li>• Setting the pose of barrel</li> <li>• Firing the Simulator</li> <li>• Calculating the Trajectory</li> </ul> </li> </ul> <p><b>MVP 2:</b></p> <ul style="list-style-type: none"> <li>• Adding the testing functionalities such as : <ul style="list-style-type: none"> <li>• Unit Testing</li> <li>• Boundary Value Testing</li> <li>• Graph Coverage Criteria: Edge Pair Coverage, All Path Definition and Use Coverage</li> <li>• Decision table-based testing</li> </ul> </li> </ul> <p>To ensure and meet the criteria of the project which is to have different tests and build the tests around the basic simulator so, that we can enhance the functionality.</p>	
Technical/Performance Requirements	
<p>I. A suitable IDE for coding environment (Currently using VS Code and IntelliJ)</p> <p>II. Programming Language: Java</p> <p>III. Program testing techniques: JUnit, Graph Coverage (TBD), Unit Testing</p> <p>IV. Code Management: GitLab</p> <p>V. Perform Integration Testing</p> <p>VI. Perform System Testing</p>	