Project Report Summary

Overview

The report provides a comprehensive overview of the requirements for the Virtual room considering various domains. The composition of the system is divided into several use cases which highlight the functional requirements for our system. Our system also determines the non-functional FURPS+ requirements in this stage to comply with a high-quality product for our end-user.

Deliverables

The use case diagrams present the actors which interact with the system functionalities embedded in the use cases. The encapsulated features are useful for mapping the requirement for the later stages of analysis and object modeling. For a detailed description of the use cases, the use case list bridges the gap between the different actors by highlighting the associations.

The data requirement establishes the format and type of input expected by the system to deliver the required results. Depending on the data conditions, a suitable format can be opted to ensure the components are in compliance with the system metric system. Performance requirement lays down the required system processing time which Virtual Room must abide by while delivering the product functionality expected by the user. Precision, Capacity, and the volume of data generated are documented to ensure the system meets the required performance bounds.

Conditions for robustness and durability for Virtual Room are specified under "Dependability Requirements" which help in getting an overview of what system configuration is expected. Hardware and software requirements for a fault-tolerant system are specified under these sections. The requirements for scalability of the product are and compatibility with existing software are addressed in the section "Maintainability and Adaptability". This is a key concern for our product because there is an expectation that demand will scale exponentially.

To prevent unauthorized access to the Virtual Room, certain guidelines and requirements are listed in Security Requirements. The sections provide the techniques and specifications utilized by the system to prevent malicious use of confidential data. This ensures the safe exchange of information among the users. The integrity and privacy of the user are addressed and well documented in this section of the report.

For enhancing the usability of the system, the "Usability and Humanity Requirements" section addresses these demands. Having a goal for simplifying the user interface, this section utilizes various techniques and states the depth of UI requirements from the perspective of the user.

Operational and Environmental requirements specify the appropriate external factors which facilitate the basic operations of Virtual Room. The different adjacent systems and environments which will be compatible with the system are highlighted here.

To address the user's personal preferences for the external products, the Look and Feel requirements help to establish clear guidelines for providing a user-friendly product that will be compatible with the needs of all people. A key factor here is generalizing our product so that each user can have their own unique styled theme.

The Cultural and Political Requirement section covers how different cultural or social norms might affect how the users interact with the product. Due to the vast differences cultures can have it is important that we abide by certain guidelines so that we ensure users of other religions etc. It is important that we design the system in a way such that any user can use the product without finding it offensive or politically driven.

The legal requirements help cover the different regulations that need to be followed when the product is deployed. The legal requirements for Virtual Room explicitly document the policies which the system needs to abide by, based on the information exchange and relevance of the product to different sectors of the society. The section establishes the compliance of the IARC rating requirement and copyright requirement used for all parts of our product.