UNIVERSIDAD NACIONAL DEL ALTIPLANO - PUNO

"FACULTAD DE INGENIERÍA ESTADÍSTICA E INFORMÁTICA"

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"Galaxy Quest: Cosmos Explorers"

PRESENTED BY:

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COURSE:

SoftWare Engineering

TEACHER

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1. Objective

"Galaxy Quest: Cosmos Explorersïs a software application designed to offer an exciting experience of space exploration and science fiction. This interactive platform allows users to immerse themselves in a vast universe full of exotic planets, extraterrestrial life forms, and thrilling cosmic missions. With this application, I aim to spark imagination and provide captivating entertainment for all space exploration and science fiction enthusiasts.

2. PROJECT DESCRIPTION:

"Galaxy Quest: Cosmos Explorersïs my ambitious project that I wish to develop, a software application I want to design to take users on exciting cosmic adventures. With this application, users will have the opportunity to explore new worlds, interact with aliens, and develop space technology. My goal is for my application to stand out and offer a complete experience that combines a wide variety of features with an engaging narrative. Unlike other available solutions, my application is not limited to space exploration; it also offers an epic story full of mystery and discoveries. Additionally, the online community I have created provides a space for space exploration enthusiasts to share their experiences and discuss their theories about the cosmos. With "Galaxy Quest: Cosmos Explorers,Ï hope to offer a unique experience that awakens curiosity and imagination in people of all ages.

3. REQUIREMENTS IDENTIFICATION:

FUNCTIONAL REQUIREMENTS

User Registration:

- Allow users to create personalized accounts within the application.
- Collect basic user information such as name, email, and password.
- Provide additional options for users to complete more detailed profiles if desired.

Exploration of Different Planets and Star Systems:

- Offer a wide variety of cosmic destinations for users to explore.
- Provide detailed information about each planet and star system, including geographical features, atmospheric conditions, and potential forms of life.

Interaction with a Variety of Aliens and Cosmic Creatures:

- Allow users to interact with a diversity of extraterrestrial beings, each with their own behavior and culture.
- Facilitate dialogues and negotiations with aliens, as well as confrontations or alliances depending on user decisions.

Development of Space Technology, Including Spaceships and Advanced Devices:

- Provide options for users to design and upgrade their own spaceships.
- Allow the manufacturing and customization of technological equipment and devices for use in space.

Participation in Cosmic Missions and Challenges:

- Offer a variety of missions and challenges for users to complete, ranging from exploration to combating cosmic threats.
- Provide rewards and recognition for success in missions and challenges.

Creation and Customization of Characters:

- Allow users to create personalized avatars representing them within the application universe.
- Provide options to customize the physical appearance, abilities, and unique characteristics of each character.

Communication and Collaboration with Other Users in the Online Community:

- Facilitate interaction between users through chat features, forums, and discussion groups.
- Encourage collaboration on group space missions and projects, as well as the exchange of experiences and advice among community members.

NON-FUNCTIONAL REQUIREMENTS

Optimal Performance for a Smooth User Experience:

- Ensure fast loading times and smooth navigation within the application.
- Optimize performance to avoid delays or crashes during use.

Security of User Data, Including Encryption of Sensitive Information:

- Implement robust security measures to protect users' personal information.
- Use encryption technologies to protect sensitive data stored within the application.

Compatibility with a Variety of Devices and Operating Systems:

- Ensure that the application is accessible from a wide range of mobile and desktop devices.
- Guarantee compatibility with different operating systems, such as iOS, Android, and Windows.

Intuitive and User-friendly Interface for Users of All Ages:

- Design an intuitive user interface that is easy to navigate and understand for users of all ages and skill levels.
- Provide tutorials and guides to help users become familiar with the application and its features.

Fast Loading Time and Quick Response to User Actions:

- Optimize the loading time of the application and its different functions to ensure a smooth and uninterrupted user experience.
- Respond quickly to user actions within the application, such as navigating between screens or executing commands.

Scalability to Support a Large Number of Simultaneous Users:

- Design the application infrastructure to handle a large volume of simultaneous users without experiencing performance issues or service interruptions.
- Scale server capacity as needed to accommodate the growth of the user base and traffic demands.

4. REQUIREMENTS CLASSIFICATION (MoSCoW):

Must Have:

- User registration.
- Exploration of planets and star systems.
- Interaction with a variety of aliens.
- Development of space technology.
- Security of user data.
- Player progress system to track user advancements and achievements.
- Trading system to exchange resources and technology with other factions or players.
- Space combat system to face challenges and threats in space.

Should Have:

- Participation in cosmic missions and challenges.
- Communication and collaboration in the online community.
- Clan or alliance system for players to join and work together on common objectives.
- Additional customization of spaceships and bases.
- Regular special events and activities to maintain player interest.
- Internal economy system to simulate resource management and economy within the game universe.
- Achievement and reward system to incentivize exploration and progress.

Could Have:

- Creation and customization of characters.
- Additional aesthetic customization options, such as clothing and accessories for characters.
- Implementation of a player-driven dynamic market economy.
- User-generated missions to add additional content and challenges.
- Massively multiplayer mode to allow encounters with other players in real-time in space.
- Developer-organized live events for special in-game events and celebrations.

Will Not Have:

- Integration with social networks in this initial version.
- Support for virtual reality at the initial release.
- Mobile gaming features at the initial release.
- Implementation of a real-money transaction system within the game.

5. PRESENTATION:

The proposal will be presented in a carefully structured document that comprehensively addresses all the points mentioned above. It will ensure that each section is clearly defined and logically organized to ensure a complete understanding of the project. Additionally, visual elements such as graphics and diagrams will be included to enhance the clarity and presentation of information. The writing will be clear, concise, and precise, using appropriate technical language that is easy for all readers to understand. Special attention will be paid to the coherence and cohesion of the document, ensuring that each section effectively relates to others and contributes to the overall objective of the proposal. The final presentation will be professional and polished, with an attractive design and a logical structure that facilitates understanding and evaluation of the project.