

Needs and Features

Three Main Features



Feed Marmots



Change Temperature



Catch Poacher



Plant a Tree

All of these needs are based on the research done, where the Snow Leopards feed on marmots, and one of the main threats is climate change, therefore the change temperature feature is added to assist their habitat as it is also in danger by climate change. Lastly catching the poachers before they do any harm.

Different States



Happy



Neutral



Sad

These various states of the Snow Leopard Virtual Pet, will depend from a certain value score divided into three categories. These categories are the food bar, the habitat and the emotions or safety bar. For the icons above it will change to the facial expression of the Snow Leopard, and the design will be used to create the icons.

Essential Features

- Pet must have 5 different needs at different intervals, requiring different interactions
- Have artwork for different states
- Make use of Xamarin.forms
- Be able to name the pet
- Play game to earn XP levels that would make the pet happier
- Have a manual explaining the various tasks that can be done
- Must follow theme of virtual pet
- Code in C# coding language
- Use GitHub for version control
- Implement gamification
- Feed the virtual pet
- Change the habitat
- Catch the poachers
- Must have unit testing added
- Feature that would know if the user has used the app before and create new games

Polish Features

- Implement a uniform unique UI style and design
- Have a navigation bar with icons
- Explore neomorphism and the trending frosted glass UI style
- Make use of the Gestalt Principles in the design
- Make use of a specific colour palette that fits the theme
- Page transitions animations
- Adding custom icons that would describe their function
- Adding extra screens such as a welcome screen etc.

Nice-to-have & Future Features

- Implement some sort of AR technology to view the pet
- Have a friend system to view your friends pets
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- Add Login and Sign Up system
- Have a dedicated news section specifically about Snow Leopards
- Multi OS compatibility
- Full notification system that notifies the user when to feed etc.
- Add the ability to explore and go on a journey