

Wallpaper Workshop

Part 0

JavaScript with Electron and Windows

Synopsis

Every computer user has demand of setting a wallpaper for the desktop. However, searching suitable pictures is time consuming. And for those who like to design and create wallpapers, a sharing platform is needed. Wallpaper Workshop is a software where users can upload their own wallpapers, browse others' works, search wallpapers on the Internet, download wallpapers and set as desktop picture. Also, for those who want to periodically change wallpapers, it provides customized setting options.

User Story

1. As a user who want to use the Wallpaper Workshop, I want to be able to login to the application, so that I can have a full access to all functionalities. My conditions of satisfaction is my username and password is required during login in order to verify my identification.
2. As a user, I want to collect the amazing wallpaper in the Wallpaper Workshop, so that I can have a persistent personal list for all my wallpaper collections in my account. My condition of satisfaction is when I use my account to login at somewhere else, like my another laptop, I can have a access to my collection of wallpaper and set the new wallpaper easily.
3. As a user who want to change the wallpaper but do not have specific interests and aims, I want to browse the recent popular wallpapers, so that it can give me some ideas and help me make the decision. My conditions of satisfaction is having a access to the high-quality wallpapers, which are ranked by the recommandations and usage from other users in the workshop community, within one specific topic or the general "most popular" topic.
4. As a wallpaper designer/creator, I want to share my works with others, so that others can use my wallpapers. My conditions of satisfaction is that I can upload my works and they can be viewed, liked, collected/downloaded by others.
5. As a fan of pets, I want different lovely pets pictures to be my computer wallpaper so that I won't be boring when I sit in front of the computer. My condition of satisfaction is that I can search for my favourite pets through this app and get its pictures back.
6. As a person who often uses PC to work and entertain, I want to change my wallpaper automatically everyday so that I can save time. My conditions of satisfaction is I can set the frequency of wallpaper changes and the range of the wallpapers that I want to change, such as choosing some specific wallpapers from my collection or randomly choose wallpapers from one or more categories.
7. As a user, I want to 'Like' the wallpapers that I love, so that it can appear in the recommendation session and be viewed by more users in order to encourage the designer. My condition of satisfaction is that I can give a 'Like' to the wallpapers.

Technologies

- Development Framework:
 - Electron
 - Mongoose
 - Node.js
- Database:
 - MongoDB
- Tools:
 - AWS
- Build tools:
 - npm