

Wallmotion



Submitted By

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WALLMOTION

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Introduction

Introducing our innovative wallpaper application (Wallmotion) designed to transform your device's appearance with stunning visuals and personalized options. Whether you're looking for breathtaking landscapes, abstract art, or seasonal themes, our app offers a vast library of high-quality wallpapers to suit every taste. With user-friendly customization tools, you can create unique wallpapers that reflect your style. Enjoy dynamic features that adapt to real-time conditions, making your device not just a tool, but a canvas for your creativity. Elevate your screen experience with our wallpaper app today.

2. Problem Statement

In today's digital world, users seek greater personalization in their devices, particularly in how they customize the look and feel of their home screens. While there are numerous wallpaper apps available, many fail to provide a truly personalized and seamless user experience. Most users struggle with limited selections, lack of customization options, high-quality resolution constraints, and difficulty in finding wallpapers that fit their device's screen size perfectly. Furthermore, there is a gap in catering to dynamic and seasonal themes that update automatically based on user preferences or real-world events

3. Proposed Solution

To address the challenges of wallpaper customization, we propose a comprehensive wallpaper application that features an extensive library of diverse, high-quality wallpapers categorized by themes and moods, including user-generated content. It will offer advanced customization tools for users to create personalized wallpapers, such as collages and overlays. The app will support HD and 4K resolutions, ensuring optimal image quality across devices, and introduce dynamic features like live wallpapers that adapt to real-time conditions and seasonal themes. A user-friendly interface will facilitate easy navigation and personalized recommendations, while a subscription model will provide an ad-free experience. Regular content updates and community engagement will foster user involvement and enhance satisfaction, ultimately delivering a rich and engaging wallpaper experience tailored to individual preferences.

4. Scope and Objectives

The main scope of this project is to provide a platform where individuals can download and use the free images according to their need. As the application is open source everyone can use it. User can set the images on wallpaper directly from the application.

4.1 Objectives

The main objective of the project are:

- To build an efficient system to provide a platform to user for free images.
- To build an efficient system to provide a platform to user to download images.
- To build an efficient system to provide a platform to user to set updated images on wallpaper live.

5. Methodology

Methodology refers to a discussion of the underlying reasoning why particular methods were used. This discussion includes describing the theoretical concepts that inform the choice of methods to be applied, placing the choice of methods within the more general nature of academic work, and reviewing its relevance to examining the problem.

5.1 Agile Methodology

Agile is an iterative approach to project management and software development that helps teams deliver value to their customers faster and with fewer headaches. Instead of betting everything on a "big bang" launch, an agile team delivers work in small, but consumable, increments.

Requirements, plans, and results are evaluated continuously so teams have a natural mechanism for responding to change quickly. Agile process requires less planning and it divides the tasks into small increments. Agile process is meant for short term projects with an effort of team work that follows the software development life cycle.

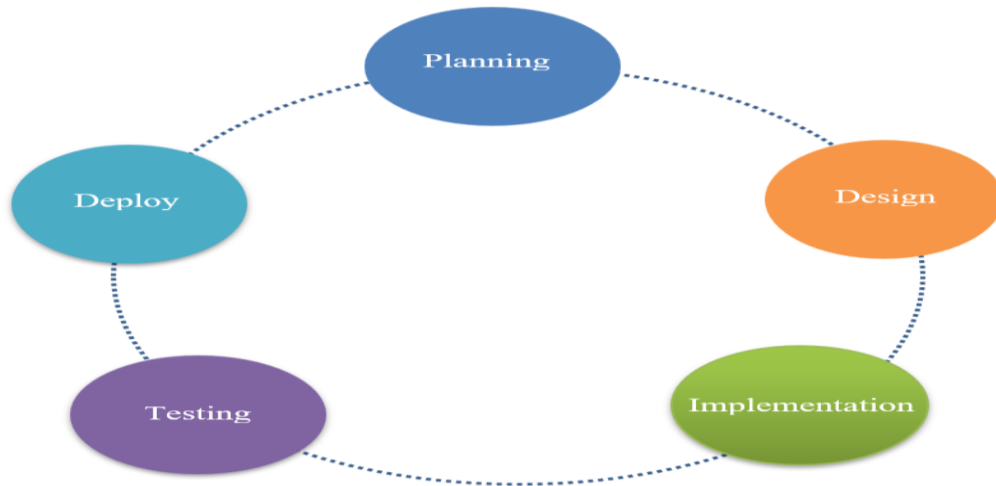


Figure 1 . Agile Methodology

6. Tools and Techniques

6.1 Flutter

Flutter is a free and open-source framework developed by google. Flutter is a UI toolkit for creating fast, beautiful, natively compiled applications for mobile, web, and desktop with one programming language and single codebase. It is free and open-source. Flutter apps use Dart programming language for creating an app. The **dart programming** shares several same features as other programming languages, such as Kotlin and Swift, and can be trans-compiled into JavaScript code. Flutter is mainly optimized for 2D mobile apps that can run on both Android and iOS platforms. We can also use it to build full-featured apps, including camera, storage, geolocation, ecommerce, and more.

Google defines Flutter as a portable UI toolkit for building beautiful natively compiled applications for mobile, web and desktop from a single codebase.

6.2 Dart

Dart is an open-source programming language which is widely used to develop the mobile application, modern web-applications, desktop application, using by Flutter framework. It is a dynamic, class-based, object-oriented programming language with closure and lexical scope. Syntactically, it is quite similar to Java, C, and JavaScript.

In Flutter all apps are composed with Dart. So, Dart is an OOP that is created and kept up by Google. It is generally utilized within Google, it has been demonstrated to have the ability to create enormous web apps, for example, AdWords. Dart was initially created as a substitution and successor of Java Script. Subsequently, it actualizes the majority of the significant attributes of Java Script's next standard (for example, watchwords "a sync" and "wait").

6.3 PIXBAY API

Pixabay is a vibrant community of creatives, sharing royalty-free images, videos, audio and other media. All content is released by Pixabay under the Content License, which makes it safe to use without asking for permission or giving credit to the artist - even for certain commercial purposes.

7. Conclusion

The android-based online wallpaper system which are developing with the help of the latest tool and technique like dart, Flutter, and API. The application is open source and everyone can use it according to their need. The main scope of this project is to provide a platform where individuals can download and use the free images according to their need. As the application is open source everyone can use it. User can set the images on wallpaper directly from the application.