

**Snap Challenges**

Photography Gamified App

**JACOB ALLEN**

**19003931**

**UXCFXK-30-3**

**Digital Systems Project**

Text

Description automatically generated

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**1 – Introduction**

**1.1 – Project Timeline (Gantt Chart)**

**2021**

**2022**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | OCT | NOV | DEC | JAN | FEB | MAR | APR |
| Research |  | |  |  |  |  |  |
| Requirements |  |  |  |  |  |  |  |
| Database Design |  |  |  |  |  |  |  |
| API Design |  |  |  |  |  |  |  |
| UI Design |  |  |  | |  |  |  |
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| **Legend** | |
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| Development Tasks |  |
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**1.2 – The problem**

There are many existing popular photography sharing platforms, Instagram, 500px and Flicker to name a few. However, none of these sites offer an engaging way to get more images shared and often do not include detailed information about the photographs on the platform. Snap Challenges will attempt to resolve the gaps left by these sites by offering an engaging and informative photo sharing experience.

Photographers often experience burn out from their art, this can be for a variety of reasons, such as:

* Not being able to reach new locations.
* Not experimenting with styles outside of their comfort zone.
* High cost of new gear.
* A lack of engagement with the content they share.

Whilst we do not claim to be able to entirely eliminate these burn out factors, Snap challenges will attempt to mitigate this via the use of gamification. The app will provide users with challenges created by users and admins. These challenges will be regular and achievable yet challenging. This approach should result in more engagement with the platform than a typical photography sharing platform.

**1.3 – Why it’s important**

One of the main ways to improve at photography is to just get out there in the field, and practice. Snap Challenges gives the user a reason to get out and do this practice. This will hopefully lead to an improvement in their photography which benefits the whole community as we get to see better photos.

The app will show camera settings such as:

* Make
* Model
* Aperture
* Shutter Speed
* ISO
* Focal Length

Providing users with this level of detail about a photograph provides a good insight in to how the photo was taken. This will mean that the community can collaboratively improve their photography simply by observing others work.

**1.4 – Goals and Objectives**

**1.5 – Potential ethical and legal issues**

I will be handling user data therefore I will need to ensure I conform to the General Data Protection Regulation (**GDPR**). I do not intend on storing user passwords in the database as I feel it will be more beneficial for the user to log in via an existing account they have on another platform. This will be achieved via OAuth2.

**2 – Literature Review**

**3 – Requirements**

**4 – Methodology**

**5 – Design**

**6 – Implementation**

**7 – Evaluation**

**8 – Conclusion**

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