**Project Description**

The application, "**NUVHEN**," is designed to assist users with specific food allergies or dietary preferences. The app provides personalized meal recommendations and identifies restaurants that cater to users' dietary needs. A unique feature of the app is its scanner function, which allows users to scan product barcodes. The app then displays a list of ingredients, helping users quickly determine if a product contains any allergens or ingredients they wish to avoid.

**System Requirements**

| **Requirement** | **Minimum Requirements** | **Recommended Requirements** | **Other Requirements** |
| --- | --- | --- | --- |
| Processor Cores | Dual-core | Quad-core |  |
| OS | iOS 11 / Android 8.0 | iOS 14 / Android 10 |  |
| RAM | 2 GB | 4 GB |  |
| Permissions | Camera, Internet, Location | Camera, Internet, Location, Notifications | Camera, Internet, Location |

**Prototype Description**

The prototype for the "**NUVHEN**" app can be viewed using this [link](https://www.canva.com/design/DAGKBnNiRLM/0eG2xVE5Ix3eaEkvxVdUAg/edit). The prototype showcases the core functionalities of the app, including the meal recommendation system, restaurant locator, and product scanner.

**Overview**

**Participant Ratings**

**Overall Aesthetic**

| **Participant** | **Rating** |
| --- | --- |
| 1 | 4 |
| 2 | 5 |
| 3 | 4 |
| 4 | 3 |
| 5 | 4 |
| **Mean** | **4.0** |

**Evaluation:** Satisfactory

**Overall Ease of Use and Navigation**

| **Participant** | **Rating** |
| --- | --- |
| 1 | 5 |
| 2 | 4 |
| 3 | 5 |
| 4 | 3 |
| 5 | 4 |
| **Mean** | **4.2** |

**Evaluation:** Satisfactory

**Aesthetic (by part)**

| **Participant** | **Rating** |
| --- | --- |
| 1 | 4 |
| 2 | 4 |
| 3 | 3 |
| 4 | 3 |
| 5 | 4 |
| **Mean** | **3.6** |

**Evaluation:** Satisfactory

**Feedback**

|  |  |
| --- | --- |
| **P1:** I feel like the white background can hurt the eyes. I prefer there to be a dark mode for apps.  **P2:** Some pages are a bit too cramped or cluttered. I think the decorations should be reduced to a bit. **P3:** Some pages can be hard to read or view. Too many objects around or close together. |  |

**Data Analysis**

The feedback from participants indicates that the "**NUVHEN**" app is generally well-received in terms of overall aesthetic and ease of use. The app's specific parts and the overall feedback also received satisfactory ratings, though there is room for improvement, particularly in the detailed aesthetic and some pages on the app.

**Design Implications**

The results suggest that while the prototype design is successful, certain areas need enhancements:

1. **Overall Aesthetic:** Although rated satisfactory, enhancing visual elements and user interface consistency can improve user experience.
2. **Ease of Use and Navigation:** Maintaining the intuitive design while optimizing the navigation flow can further increase usability.
3. **Aesthetic (by part):** Focused improvements on specific sections, ensuring a cohesive design throughout the app.

**Critique and Summary**

The "**NUVHEN**" app prototype successfully addresses the needs of users with food allergies or specific dietary preferences by providing tailored meal recommendations and restaurant suggestions. The app's scanner function is particularly useful for quick product checks. User feedback highlights satisfactory overall aesthetic and usability, though improvements in specific areas can enhance the overall user experience. By refining these aspects based on participant feedback, the app can achieve higher user satisfaction and effectiveness.