

**National**

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**f Computer & Emerging Sciences Faisalabad**

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**Chiniot Campus**

# PROJECT PROPOSAL

## PROJECT IDEA

The AI Hairstyle Changer is an interactive web application where users can upload their images, select a hairstyle, and preview how it looks on them in real time. The system processes the uploaded image, overlays the selected hairstyle, and allows users to adjust the placement and size for a perfect fit. Users can then download their styled image for future reference.

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|  | HAIRSTYLIST | |
| Sr. # | Roll Number | Name |
| 1 | 22F-3361 | Rai Ali Yar |

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| --- | --- | --- |
|  | FUNCTIONAL REQUIREMENTS | |
| Sr. # | Name | Description |
| 1 | User Authentication | Allows users to sign up, log in, and manage their accounts. |
| 2 | Image Upload | Users can upload their front-facing images. |
| 3 | Hairstyle Selection | Users can browse and select hairstyles from a given set. |
| 4 | Hairstyle Overlay | The selected hairstyle is overlaid on the uploaded image. |
|  | MODULE 1 | |
| 1 | Server-side Image Handling | Processes and stores uploaded images securely. |
| 2 | Database Management | Stores user data, selected hairstyles, and preferences. |
| 3 | Hairstyle Library | Manages available hairstyles in a structured format. |
| 4 | |  |  | | --- | --- | | AI Enhancement (Future) |  | | AI-based auto-fitting of hairstyles to images. |
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|  | Module 2 | |
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CONSTRAINS:

* Users must upload a **clear front-facing image** for accurate hairstyle fitting.
* The application works best with **high-resolution images**.
* Limited to **pre-designed hairstyles** (custom uploads may not be supported).

KEY FEATURES:

* **Real-time Hairstyle Preview**: Instantly see how different hairstyles look on your face.
* **Adjustable Hairstyles**: Move and resize hairstyles for a perfect fit.
* **User-Friendly Interface**: Simple navigation and controls.
* **Download Option**: Save your styled image for future reference.

**GitHub repository**

https://github.com/Rai-Ali-Yar/WEB.git

