

User Requirements Document

Project Title: SkillHive – A Platform for Showcasing Skills and Community Learning

Introduction

SkillHive is a dynamic, all-in-one web application designed to empower young individuals, students, and professionals by allowing them to showcase their skills, build personal portfolios, engage with a learning community, explore job opportunities, and share knowledge through video tutorials. The platform blends the functionalities of social networks, job boards, and learning hubs into one user-friendly ecosystem.

SkillHive focuses on four core functional areas:

- **Community Building:** Create an interactive community where users can follow, comment, message, and collaborate.
- **Profile & Portfolio Creation:** Let users build customized profiles that display their skills, projects, and achievements.
- **Job Posting & Discovery:** Employers or project owners can post opportunities; users can apply based on their interests and skills.
- **Skill Page & Video Tutorials:** Allow users to create dedicated "pages" to share skill-based videos (e.g., coding tutorials, design walkthroughs).

User Requirements

1. Functional User Requirements

- Users should be able to **register and create an account** with optional social login (Google, GitHub).
- Users must have a **customizable profile page** to add bio, profile picture, skill tags, and project showcases.
- The platform should allow users to **follow and connect** with others, with a notification system for interactions.
- Users should be able to **post projects** with media support (images, documents, videos, descriptions).
- The system must support **posting and browsing of job opportunities** with filters by skill, location, or type.

- Users should be able to **create "Pages"** (like Facebook) to upload and categorize video tutorials under different topics (e.g., HTML, Java, C++, Flutter).
- A **messaging system** must allow real-time or asynchronous communication between users.
- The platform must support **commenting, liking, and sharing** of projects and posts to enhance community engagement.
- Users should have access to **search and filter functionalities** for jobs, users, and tutorials.
- An **admin dashboard** must be available for content moderation, user management, and analytics.

2. Non-Functional User Requirements

- The platform should have a **responsive UI/UX**, ensuring accessibility across desktop, tablet, and mobile devices.
- All user interactions and data should be protected using **secure authentication and encryption (HTTPS, JWT, OAuth)**.
- The site should offer **fast load times** and optimized content delivery using caching, CDN, and lazy loading.
- SkillHive must ensure **scalability** to handle growing user bases and data.
- The system should have a **user-friendly interface** for easy navigation and content creation, especially for younger users.
- The platform should offer **multimedia support**, especially for video uploads, with compression and format compatibility.
- It must include **accessibility features**, such as alt text for images, keyboard navigation, and screen reader support.
- Notifications (email + in-app) should be configurable by users to avoid overload but keep engagement high.
- The platform should support **multi-language capability** in the future for wider adoption.