SkillForge

App Concept: SkillForge

Purpose:

A **skill-building and habit-tracking app** designed to help users acquire new skills, develop consistent habits, and track their progress. The app integrates bite-sized lessons, habit streaks, and motivational insights to make learning and self-improvement fun and achievable.

Folder Structure

Structure

```
/SkillForge
                        # Static resources
  - /assets
                         # Icons, skill illustrations, and
    ├─ /images
badges
    ├─ /videos
                        # Tutorial and lesson videos
                        # UI themes for personalization
    ├─ /themes
                         # Notification and achievement sou
    ├─ /sounds
nds
 - /lib
                         # Main application logic
    ├─ main.dart
                        # App entry point
    ├─ /models
                        # Data models
                               # Skill data model
        ├── Skill.dart
        ├─ Lesson.dart
                               # Lesson and progress tracki
ng
        ├─ Habit.dart
                               # Habit tracking model

    UserProfile.dart

                               # User data and preferences
                         # Main screens of the app
        ├── DashboardScreen.dart # Overview of skill progress
        ├── SkillScreen.dart # Skill details and lessons
       LessonScreen.dart # Individual lessons with v
ideos or guides
       ├── HabitScreen.dart # Habit tracking and remind
       — AnalyticsScreen.dart # Progress analytics and ac
hievements
      ├── CommunityScreen.dart # Join groups and challenge
S
    ☐ SettingsScreen.dart # Customization and prefere
```

SkillForge 1

```
nces
├── SkillCard.dart # Display skills and progre
      ├── LessonTile.dart  # Lessons list view
├── HabitTracker.dart  # Visual habit tracking cal
endar
       ProgressBar.dart # Skill progress indicators
      — AchievementBadge.dart # Show unlocked achievement
   ☐ CommunityPost.dart # User-generated posts and
comments
   ├─ /services
                       # App services
   ├── SkillService.dart # CRUD operations for skil
ls
   ├── HabitService.dart # Manage habits and streak
       ├── AnalyticsService.dart # Generate progress insigh
ts
       — CommunityService.dart # Posts and challenges
       └─ NotificationService.dart # Habit and lesson remin
ders
   ├─ /utils
                # Helper functions
      ├── DateUtils.dart # Handle scheduling and stre
ak dates
       ├── SkillUtils.dart # Logic for skill progress
└── Constants.dart # App-wide constants
                  # Optional backend services
├─ /backend
  # API endpoints for skills, lesson
s, and habits
├── server.js # Main server file (if using Node.
js)
  ├── /models # Backend schemas (skills, habits,
users)
├── /services # Community challenges or analytic
   └── /database # Data storage (e.g., Firebase, Mo
ngoDB)
├─ /docs
                        # Documentation
   README.md
                       # Overview of the app
   ├── API_Documentation.md # API endpoint details
     — UX_Wireframes.pdf # Wireframe designs
                       # Unit and integration tests
 — /test
   ├── SkillTests.dart
   ├─ HabitTests.dart
```

SkillForge 2

```
|
☐
ProgressTests.dart

|
|
/config
# Configuration files

|
☐
firebase.json
# Firebase configuration

|
—
.env
# Environment variables

|
—
package.json
# Backend dependencies
```

Features

1. Skill Library

- Browse and choose from a library of skills (e.g., coding, painting, fitness).
- Skills are categorized by difficulty and focus areas.

2. Lessons and Challenges

- Bite-sized lessons with tutorials, guides, or videos.
- Weekly challenges to apply learned skills.

3. Habit Tracker

- Create habits related to skill-building (e.g., "Practice guitar daily").
- Visualize streaks using a calendar-based tracker.

4. Progress Analytics

- Track time spent learning and skill completion progress.
- Earn points and badges for consistency and milestones.

5. Achievements

- Unlock achievements like "First 5 Lessons Completed" or "30-Day Streak."
- Share achievements with friends or the community.

6. Community

- Join groups based on skills and participate in group challenges.
- Share tips, progress, and lessons with others.

7. Reminders and Notifications

 Get notified for lesson schedules, habit check-ins, or streak progress.

8. Themes and Personalization

• Choose skill-based themes or create custom interfaces.

SkillForge 3