



# WiT Hackathon UX/UI Starter User Guide

## What is UX/UI ?

UX (User Experience) : How your app *feels* to use. It is about making things simple, smooth and enjoyable for people. For example, making sure users can easily find what they need, and that the app doesn't feel confusing.

UI (User Interface) : How your app *looks*. This covers visual design - like colours, fonts, buttons, and layouts. A clean, consistent design makes your app look professional and trustworthy.

## Tools

Microsoft CoPilot ( but tips can be extended to LLM of choice)

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## Define the Problem & Users

Identify what the app does and who uses it.

### App Example

- **App:** Fitness Tracker
- **Problem:** Users want to track workouts and monitor progress
- **Users:** Young adults 18-30 year olds
- **Key actions:** Log in, view dashboard, add workout , log out.

You can use the template above to define your application.

## Create Screens & User Flow

Once your app's goal and users have been defined. We can feed this into CoPilot to help us brainstorm the different pages we need for this app and what they should consist of.

### AI Prompt Example

#### Input:

```
App: Fitness Tracker
```

```
Problem: Users want to track workouts and monitor progress
```

```
Users: Young adults 18-30 year olds
```

```
Key actions: Log in, view dashboard, add workout , log out.
```

```
Please list the main pages needed for the application above. Include what should be on each page.
```

## Output:

The screenshot shows the Microsoft Copilot interface within a web browser. On the left, there's a sidebar with icons for Activity, Calendar, Calls, Meet, Service Hub, Chat, OneDrive, and Apps. The main area displays AI-generated content for a "Fitness Tracker" application.

**App: Fitness Tracker**  
Problem: Users want to track workouts and monitor progress  
Users: Young adults 18-30 year olds  
Key actions: Log in, view dashboard, add workout, log out.

Please list the main pages needed for the application above. Include what should be on each page.

**Copilot** (Copilot)

Here's a list of the **main pages** your **Fitness Tracker** app should include, tailored for young adults aged 18–30 who want to track workouts and monitor progress:

**1. Login Page**  
Purpose: Secure access to the app.  
Contents:

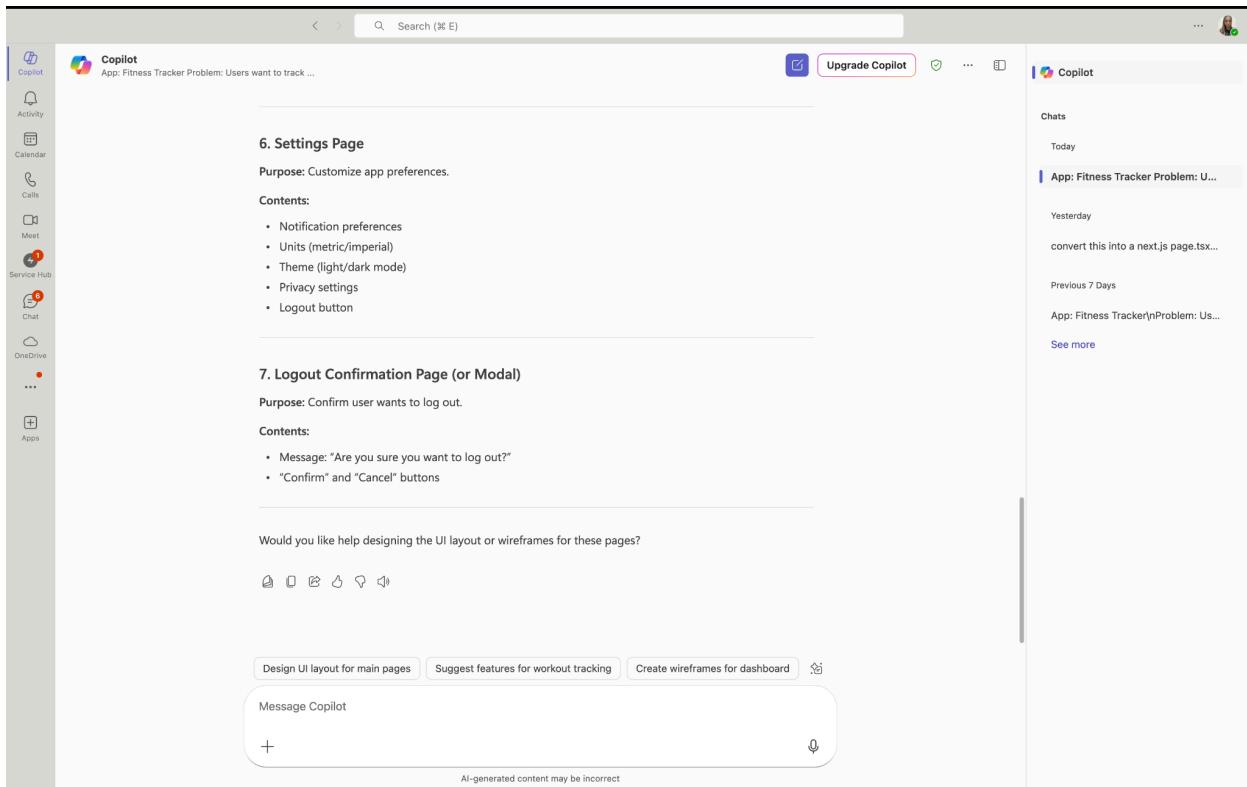
- Email/Username and Password fields
- "Forgot Password?" link
- "Sign Up" link for new users
- Option for social login (Google, Apple, etc.)
- Error messages for invalid credentials

**2. Dashboard Page**  
Overview: Overview of user's fitness activity and progress  
Buttons: Design UI layout for main pages, Suggest features for workout tracking, Create wireframes for dashboard

Message Copilot

AI-generated content may be incorrect

Chats sidebar: App: Fitness Tracker Problem: U..., Yesterday, convert this into a next.js page.tsx..., Previous 7 Days, App: Fitness Tracker\InProblem: Us..., See more



CoPilot has suggested the following pages for my app and what they should include.

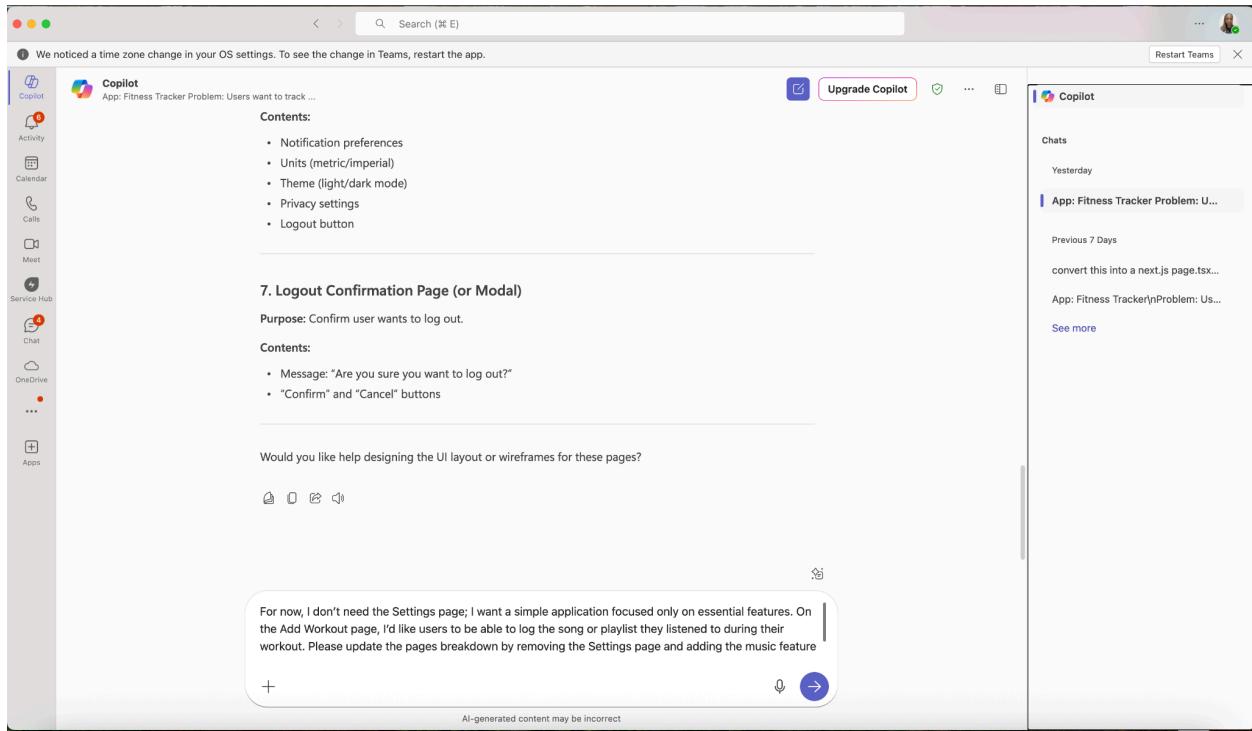
1. Login
2. Dashboard
3. Add Workout
4. Workout History
5. Profile
6. Settings
7. Logout Confirmation

As you can see CoPilot prompts their assistance in creating wireframes for each page. But before that, **make sure you are happy with what's suggested**. If you need to make amendments, ask for them!

For now, I don't need the **Settings** page; I want a simple application focused only on essential features. On the **Add Workout** page, I'd like users to be able to log the song or playlist they listened to during their workout. I'll ask Copilot to update the project

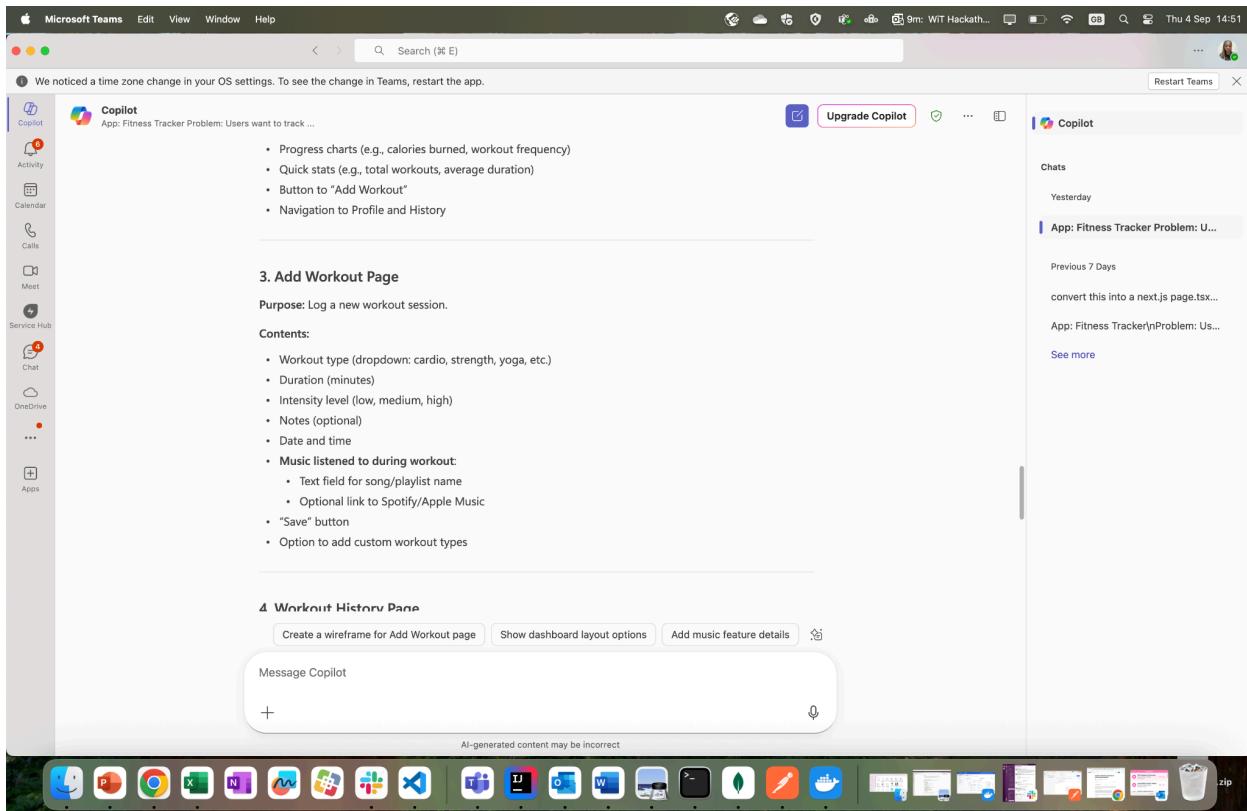
breakdown by removing the Settings page and adding the music feature to the Add Workout page before going any further.

## Input:



## Output:

An updated breakdown with the new feature on the Add Workout Page and no Settings page.



Now that I am happy with the pages, I am going to move on to create [high fidelity wireframes](#) using CoPilot.

Here are some useful things to include in your prompt:

- **Purpose of your app** - Remind it what your app is for.
- **App Name** - What is your brand.
- **Key content** - List what needs to appear on each page.
- **User goals & actions** - What do you want your users to *do* on each page?
- **Hierarchy & priority** - Highlight what should stand out.
  - Example: "Make the newsletter signup the main call to action on the home page."
- **Branding & Style** - Give hints about the look and vibe you want.
 

Example (for a blog website): Keep it minimal, modern, and mobile friendly.  
Use grid layouts for articles. Avoid clutter"

You can ask AI to help you with the above.

Tip: Due to time constraints, it's best to first request desktop wireframes. If you have the capability, you can also for mobile and desktop versions later.

## Iteration is Key

- AI tools let you **iterate and refine** as you go.
- Adjust your prompt based on the outputs until you're satisfied with the results.

## Finding Inspiration

Before you dive into wireframes, it helps to gather design inspiration. To get the looks you're hoping for, it would be good to specify design styles and colour palettes.



### Inspiration Tools

Use these to **see what others have built** and get ideas for your own app or website.

- **[Dribbble](#)**

A showcase of creative designs. Browse mobile apps, websites, dashboards, and more to get a feel for layout, style, and colour.

- **[Mobbin](#)**

A library of real app screenshots from popular products like Airbnb, Spotify, and Notion. You can filter by screen type (e.g. login, profile, settings) to see how others solve common design problems.



### Colour Palette Tools

These tools help you **pick colours that look good together**. You don't need to be a designer—just choose a palette that fits your vibe.

- [\*\*Colors\*\*](#) – Tap a button to generate colour palettes. Lock in colours you like and shuffle the rest.
  - [\*\*Color Hunt\*\*](#) – Browse thousands of trendy, ready-made colour schemes.
  - [\*\*Happy Hues\*\*](#) – See how colour palettes look on real UI components like buttons and cards.
- 



## Wireframing & Design Tools

Once you've got some ideas, use these tools to **sketch out your app** and plan how it will look and work.

- [\*\*Figma\*\*](#)  
A free, beginner-friendly design tool for creating wireframes and mockups. You can drag and drop shapes, add text, and even build clickable prototypes. Great for solo or team work.
- [\*\*Miro\*\*](#)  
A digital whiteboard for brainstorming and planning. Use it to map out user flows, create mood boards, or sketch rough layouts before jumping into Figma.

In this Demo I will use **Dribble** and **CoPilot** to generate my wireframes.

[dribbble.com](https://dribbble.com)

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## Fitness Tracker Desktop Designs

Explore Fitness Tracker Desktop Designs work, designs, illustrations, and graphic elements

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## Action:

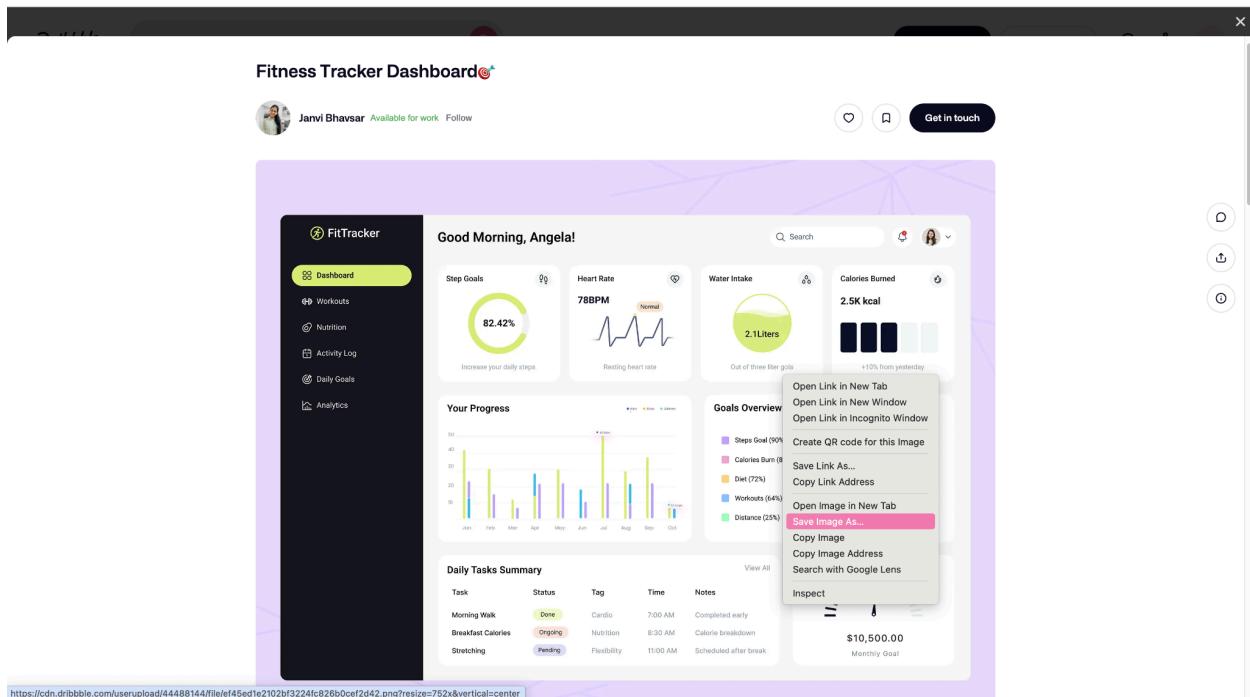
- Create a free account ( you can use Google to sign up)

- Search for designs that inspire you.
- Save what stands out.

Keep in mind: You will need to code your application. So, while it is tempting to aim for fancy designs, it's better to start **simple and clean**. That way, you can focus on functionality first, then enhance the styling later.

You might want to find **design examples for each of your pages**. But if you can only find one or a few designs you really like, that is perfectly fine - you can use these as the basis for the rest of your app.

For example, I found a dashboard design that I really like. I'm going to ask CoPilot to use it as a style reference when generating my wireframes, and then I will adapt that look across my other pages.



## Generating Wireframes

### Input

Please can you use this dashboard design as a source of inspiration (

same colour theme **and** layout) **and** generate high fidelity wireframes **for** all the pages listed above as separate screens.

Keep **in** mind:

The purpose of my app.

My target users **and** what they need **to** achieve.

A simple **and** modern design that is easy **to** implement with beginner friendly code

Make sure the wireframes:

Stay consistent **in** style **and** layout across all pages.

Highlight the most important actions **for** users.

Avoid unnecessary complexity **or** clutter so they can be coded efficiently by a beginner.

## Output

The wireframe shows a mobile application interface for tracking workouts. The sidebar on the left provides navigation options like 'Add Entry', 'History', 'Settings', and 'Log Out'. The main screen is titled 'Add Workout' and includes fields for workout type, intensity, notes, and music listened to, along with 'Save' and 'Cancel' buttons.

### Tip:

AI tools have a limit on the number of image generations per person. If one person tries to generate wireframes for every page, they'll likely hit the limit.

To avoid this, split the work across your team - each member should generate wireframes for their assigned pages. This way, you'll cover all (or most) of your screens within the hackathon timeframe.

You've reached the maximum number of image generation requests that are allowed for now. Try again in a little while — I'll be ready to generate the **Profile Page wireframe** as soon as it's available again.

## User Guides: From Design to Code

It's time to bring your designs to life.

Below are user-friendly coding guides to help you implement your app using two popular stacks:

### ◆ Option 1: React + Java or Python Backend

Ideal if you're comfortable with separate frontend and backend projects.

- Use **React** for building interactive user interfaces.
- Choose **Java** or **Python** for backend logic and API development.
- Connect to **MongoDB** for storing user data.

👉 Includes step-by-step instructions for setting up the frontend, backend, and database.

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### ● Option 2: Next.js (Fullstack JavaScript)

Perfect for beginners or those who prefer a unified project structure.

- Use **Next.js** to build both frontend and backend in one codebase.
- Easily create API routes for backend logic.
- Connect to **MongoDB** for storing user data.

👉 Includes simplified setup and database integration—all in one place.