

AGILE PUNE 2025 CONFERENCE

Theme: Sankalp to Siddhi - Resolution to Realization

VIBE MODE: ON!

VISION INNOVATION BUILD ENGINEERING



# Disclaimer

## ❑ Personal Views Disclaimer

- ❑ The content reflects the presenter's personal opinions and not official company policies or stances.

## ❑ Demonstration Purposes Only

- ❑ All shared code and technical content are for demonstration only, not production-ready or for live environments.

## ❑ Tool Limitations

- ❑ Tools shown are free or community versions with limited capabilities compared to enterprise or paid versions.

## ❑ Responsible Usage Encouraged

- ❑ Attendees should apply responsible AI practices and follow organizational ethical guidelines



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# KNOW THE SPEAKERS

# Workshop Agenda

- ❑ Workshop Introduction
  - ❑ Combining human creativity with AI Agents to build software effectively.
- ❑ Getting Started
  - ❑ Discussion on hallucination & ensuring secure, RAI application in coding.
  - ❑ Responsible AI Use
- ❑ Hands-on Prototyping and Techniques
  - ❑ Objective - Attendees transform prompts into prototypes using Agentic capabilities of Vibe coding platforms.
  - ❑ Example 1 -Solving the real-world problems and Innovate with Empathy
  - ❑ Example 2 - Build the StudyMate application
  - ❑ Example 3 - Vibe Coding with Agile Development Way
- ❑ Exciting Path ahead and Career Opportunities





VIBE MODE: ON !  
LET'S VIBE

# RESPONSIBLE ENGINEERING



## Direction > Instruction

- Not just *what* AI should do, but *how* it should do it



## Iterative Development

- Refine inputs step-by-step, like Agile sprints



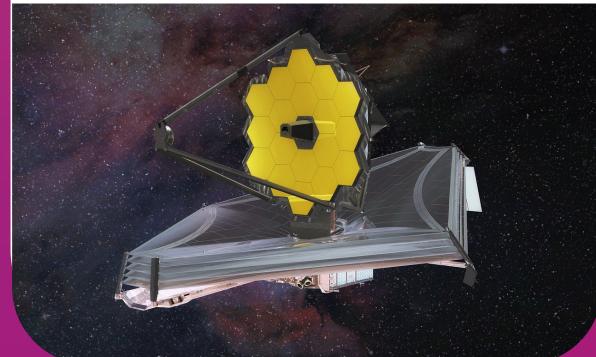
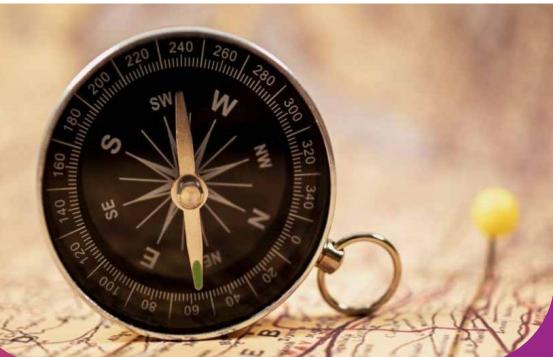
## Importance of Context

- Clear, detailed context leads to accurate results



## Hallucinations

- AI can add details that don't exist, always verify the output



# Vibe Coding Tools

## Code Generation

Gemini



Claude



**GitHub**  
Copilot

## Smart IDEs

CURSOR

TRAË

replit

Windsurf



## Frontend + Deployment

lovable

DeepSite

Firebase

Vercel



# Live Prototyping with Vibe Coding Tools

- ❑ Workshop Objective
  - ❑ Attendees transform prompts into prototypes using Agentic capabilities of Vibe coding platforms.
- ❑ Example 1
  - ❑ Solving the real-world problems and Innovate with Empathy
- ❑ Example 2
  - ❑ Build the “StudyMate” application
- ❑ Example 3
  - ❑ Vibe Coding with Agile Development Way

SOLVING THE  
REAL-WORLD  
PROBLEMS AND  
INNOVATE WITH  
EMPATHY

EXAMPLE 1  
AGRI DIRECT

← ⏪ /

# AgriDetect

## Diagnose Your Crop's Health

Upload or take a photo of an affected plant leaf. Provide a few details about the conditions, and our AI will analyze the issue and provide recommendations.

### 1. Upload Image

Upload or capture a photo of the affected leaf.



N

Upload from Device Use Camera

### 2. Provide Details

More information helps improve the accuracy.

Location (e.g., Vidarbha, Maharashtra)

Enter farm location

Climate (e.g., Hot and Dry)

Describe the climate

Pesticides Used

**GOAL:**

HELP COLLEGE STUDENTS  
CREATE **STUDY-MATE**, AN  
AI-POWERED STUDY AND  
INTERVIEW PREP ASSISTANT  
USING GOOGLE AI STUDIO ,  
CHATGPT, ETC.

**EXAMPLE 2**  
**STUDY-MATE**

Notes Study



## Upload or Paste Your Notes

Turn your raw notes into powerful study tools in seconds.



Click to upload or drag and drop

TXT files only

Paste from Clipboard

Senior Vice President, Solution Architect

At BNY, our culture allows us to run our company better and enables employees' growth and success. As a leading global financial services company at the heart of the global financial system, we influence nearly

## Goal

Create a single-page web app called StudyMate that helps college students accelerate their studies and prepare for corporate interviews using AI-generated quizzes, flashcards, and personalized learning insights.

## Detailed Prompt for AI App Generator

### Prompt Title:

 StudyMate – AI Study & Interview Assistant for College Students

## App Description

Build a modern, responsive single-page web app named StudyMate, designed to help college students study smarter and prepare for corporate job interviews. The app should use AI to convert class notes, PDFs, or text input into quizzes, flashcards, summaries, and provide interview prep assistance (common HR, technical, and aptitude questions).

## Core Features

### Upload or Paste Notes

Allow students to upload PDFs / Word / Text files or paste text directly.  
AI should parse the content and generate study materials.

### AI Quiz & Flashcard Generator

Automatically create quizzes (MCQs, short answers, or true/false) from uploaded notes.  
Create AI flashcards (Question on front, Answer on back).  
Allow export of flashcards as .csv or .pdf.

### Smart Summaries

Generate concise, AI-driven summaries of uploaded material.  
Allow students to select "Quick Recap" or "Detailed Review."

## Interview Preparation Mode

Preloaded corporate interview question banks:  
General HR questions  
Technical (by domain: IT, Finance, Marketing, etc.)  
Aptitude & reasoning

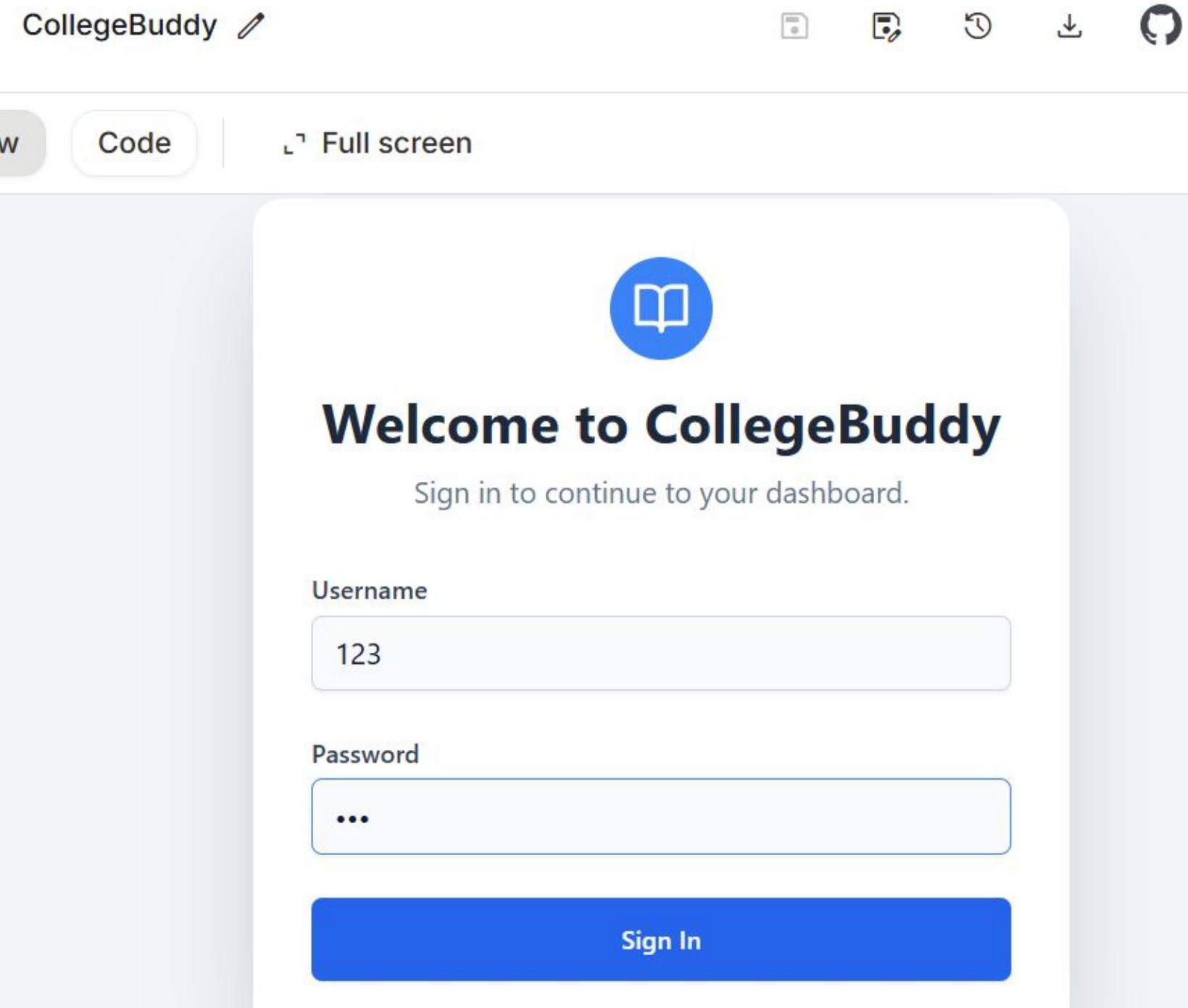
AI should analyze uploaded resume (optional) and suggest personalized interview questions.

## Progress Tracker

Shows progress and completion status.

**GOAL – BUILD AN APP FOR  
STUDY MATERIAL SHARING,  
PEER STUDY, Q&A FOR  
CLASSWORK/HOMEWORK  
(MUST-HAVE) AND CHAT  
BOX, PARTY PLANNING, TRIP  
PLANNING**

EXAMPLE 2  
COLLEGE-BUDDY



# VIBE CODING 2.0- FOR ENTERPRISES

# THE 5-STEP PROCESS

STEP 1: Product Brief Creation

STEP 2: Prototype Requirements Document

STEP 3: Screen Flow Document

STEP 4: Specify Style Guide

STEP 5: Vibe It

# STEP 1: Product Brief Creation



## Role of Subject Matter Expert

The SME drafts the product brief in simple language to clearly define the application's purpose.



## Purpose of Product Brief

The brief captures the application's goals, target audience, and key functionalities concisely.



## Importance for Stakeholders

It ensures shared understanding and aligns expectations among all project stakeholders.



# STEP 2: Prototype Requirements Document

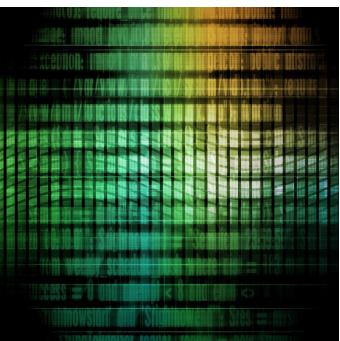
## From Brief to Requirements

The prototype requirements document transforms the initial product brief into actionable and detailed specifications.



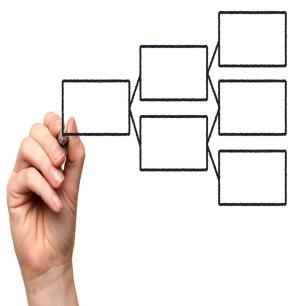
## Core Features and Constraints

It clearly defines core features, user interactions, and technical constraints for the prototype development.



## Roadmap for Development

This document provides a clear roadmap for design, development, resource planning, and early challenge identification.



# STEP 3: Screen Flow Document

## Mapping User Navigation

Screen flow documents map how users navigate through each screen and transition within the application.

## Designing Sitemap Structure

A sitemap defines the overall structure and hierarchy of the user experience in the application design.

## Enhancing Usability

This document helps identify usability issues and optimize layout for intuitive and engaging user experience.



## Step 3 – Prompt :

Now for the *attached product requirement document*, create a Screen flow Document that describes the user journey and show case the capabilities of the product. Create the output in the .Docx format.

# STEP 4: Specify Style Guide

## Leveraging Brand Guidelines

Utilize existing brand guidelines to maintain visual consistency throughout the UX prototype.

## Style Guide Components

Include color schemes, typography, iconography, and spacing rules in the style guide for cohesive design.

## Benefits of Style Guide

Enhances usability, aesthetic appeal, and streamlines design by providing predefined templates and components.



# STEP 5: Vibe It

## Interactive Prototype Creation

The 'Vibe It' step generates interactive mockups automatically from previous design inputs, creating a functional prototype.

## Design Validation and Feedback

This phase enables testing of usability and design assumptions, helping teams gather feedback early in development.

## Risk Reduction and Efficiency

Early prototype testing helps identify issues sooner, reducing development risks and improving project efficiency.

## Stakeholder Experience

The prototype allows stakeholders to experience the application in a simulated environment before full development.





# LEARNING OUTCOMES AND CAREER IMPACT



# Key Learnings

- Live GenAI App Prototyping**  
Hands-on experience building a multi-modal apps using Vibe coding platforms like GitHub Copilot, Google AI Studio or Google Firebase Studio.
- Vibe Coding and Agentic Collaboration**  
Learn how to co-create with AI Agents with XP-style collaboration and Agentic capabilities to boost speed, creativity, and code quality.
- Vibe coding and Prompt Engineering**  
Practice writing effective prompts for ideation, design, coding, testing, and documentation.
- Responsible GenAI Use**  
Gain a mental model for secure, ethical, and environmentally conscious GenAI development—avoiding hallucinations and misuse.
- Internship & Career Readiness**  
Map GenAI skills to real-world roles, showcasing how vibe coding accelerates onboarding and productivity in entry-level tech jobs.

# NEXT STEPS AND CAREER READINESS

# Building Your Portfolio

## Create Public Repositories

- Students can document their prompts and learning outcomes in public repositories to showcase their work.

## Showcase Technical Projects

- Projects using AI Studio, Firebase, and Copilot demonstrate technical skills and innovation in portfolios.

## Engage in Continuous Learning

- Continuous learning, open-source contributions, and hackathons improve visibility and career opportunities.

## Prepare for Career Readiness

- A strong portfolio with real skills makes students attractive for internships and entry-level roles.



THANK YOU

