**VIJAYA VITTALA INSTITUTE OF TECHNOLOGY**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**BANGALORE**

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**Synopsis**

**Hab AI – Gives Productivity**

**Under the guidance of: Mrs. Mamatha.C**

**Team Members:**

**Chintaumamaheshwar Reddy – 1VJ22CI009**

**Rahul – 1VJ22CI046**

**Syed maaz – 1VJ22CI059**

**Hab AI – Gives Productivity**

**1. Abstract**

Hab AI is an app designed to create a distraction-free study environment for students. It leverages artificial intelligence to offer features like real-time question-solving, study tracking, and personalized study plans. These tools enhance focus and productivity, while built-in gamification elements motivate consistent study habits. Overall, Hab AI aims to support students in achieving their academic goals through an organized, engaging, and efficient interface.

**2. Literature Survey**

**2.1 Existing Systems**

Current study support apps generally focus on features like time tracking or basic note-taking, and some include gamification to increase engagement. However, they often lack AI-driven personalized support for real-time question-solving, study planning, and distraction management.

**2.2 Proposed System**

**Hab AI aims to address the limitations of existing systems by providing a comprehensive study environment. It includes notification muting, a customizable Pomodoro timer, and AI-powered question-answering using Retrieval-Augmented Generation (RAG). Additionally, gamification elements like rewards and achievements foster engagement, while offline storage and automatic cloud sync ensure a smooth user experience.**

**3. System Requirements**

**3.1 Hardware Requirements**

* Device: PC, laptop, tablet, or smartphone.
* Processor: Dual-core or higher for smooth performance.
* Memory: Minimum of 2 GB RAM; 4 GB recommended for optimal use.
* Network: Stable internet connection (minimum 2 Mbps) for real-time data processing and verification.

**3.2 Software Requirements**

* Browser: A modern web browser (e.g., Google Chrome, Firefox, Safari, Edge) supporting JavaScript and WebSockets for interactive features.
* Operating System: Recent OS versions like Windows 10+, macOS, Linux, iOS, or Android.
* Additional Requirements: JavaScript enabled in the browser for full functionality.

**4. Future Enhancements**

Future updates for Hab AI could include advanced personalization using machine learning, integration with additional academic resources, and expanded gamification features like group study leaderboards and weekly challenges.