





- •Problem Statement ID 06
- •Problem Statement Title Frictionless productivity solution for students
- •Team Name (Registered on google forms): FocusForge







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### IDEA TITLE

### FocusFlow – Frictionless Productivity OS for Students

#### Proposed Solution:

- -A browser-based mini operating system that merges task planning, note-taking,
- PDF summarisation and distraction-reducing features into one seamless interface.
- -Removes friction from student workflows by integrating all tools in a single dashboard, requiring no logins or installations.

### Innovation and Uniqueness:

- -Focus Mode with simplified UI and tab-switch recovery.
- -Micro-Coach Al nudges users when idle or distracted.
- -Drag-drop planner with priority tags, a GitHub-style heatmap, and motivational bars.
- -Smart rescheduling of forgotten tasks with alert cards.





### TECHNICAL APPROACH

- -Frontend Technologies: HTML (structure), CSS (styling), JavaScript (interactivity)
- -PDF Handling: pdf.js library for parsing and summarization
- -Data Storage: Uses browser localStorage for offline data persistence
- -Notifications: Built-in SpeechSynthesis API for audio alerts and nudges
- -Offline First: Works without an internet connection; no signup required
- -Behavioral Learning: Adapts to student behavior (e.g., tab switching)





## FEASIBILITY AND VIABILITY

#### Feasibility:

- -Uses simple and lightweight tech stack—fully browser-based.
- -Offline-first approach ensures accessibility even without internet.
- -Requires no backend or database; minimal deployment cost.
- Challenges and Risks:
- -Limited to browser capabilities (e.g., file size limits).
- -May need optimization for large PDF processing.
- Mitigation Strategies:
- -Optimize summarization logic for speed.
- -Progressive Web App (PWA) version planned for better performance.
- -Limit file size and provide instant feedback to the user.



## Impact and Benefits

### Target Audience:

- -High school and college students.
- -Students with ADHD or time management challenges.
- -Learners managing handwritten notes or digital PDFs.

#### Benefits:

- -Saves 50%+ time spent on planning and switching tools.
- -Boosts consistency in task completion and revision.
- -Reduces academic stress with auto-generated weekly journals.
- -Encourages habit-building and focus awareness.

#### Future Enhancements:

- -Smart AI for task prioritization
- -Calendar sync with LMS and Google Calendar
- -Mood-based UI (dynamic themes)
- -Progressive Web App (PWA) version for enhanced offline use