

Business Case for Resource.CS

- 1) **Executive Summary:** Resource.CS is a centralized learning and event hub tailored for Computer Science students. It organizes verified topic-wise resources, provides real-time tech event updates, and offers academic guidance — all within a single, accessible platform. The project is planned for deployment within 3 months, aiming to replace scattered, unverified, and unorganized sources with a structured and student-friendly system.
- 2) **Business Need:** CS students often rely on informal and fragmented sources like YouTube, WhatsApp, or random websites, which are not always well-organized, updated, or verified. There is no unified platform combining roadmaps, categorized learning materials (free & paid), and timely event/job notifications. Resource.CS addresses this gap by providing a single reliable source for both learning and staying informed.
- 3) **Project Description:**

A responsive web platform exclusively for CS students, featuring:

 - Verified, topic-wise video & article repositories.
 - Categorized courses (free & paid).
 - Roadmaps for academic and career progression.
 - Real-time updates on tech events, hackathons, and job fairs.
 - Academic guidance & curated learning paths.
- 4) **Benefits:**
 - Streamlines learning by eliminating scattered, low-quality sources.
 - Keeps students informed about relevant events and opportunities.
 - Supports career preparation through curated roadmaps.
 - Encourages structured self-learning habits.
 - Offers both free and premium content options to suit all learners.
- 5) **Risk Assessment:**
 - Difficulty in sourcing and verifying up-to-date resources.
 - Low initial adoption by students.
 - Delays in content updates due to reliance on contributors.
 - Limited technical resources for automation of event updates.

6) Alternatives Analysis:

Option	Description	Drawbacks
YouTube Playlists	Free, easily accessible	Scattered, unverified, lacks structure
WhatsApp/Telegram Groups	Informal sharing	No filtering, noisy, hard to track updates
Learning Platforms (Coursera, Udemy)	Professional courses	Often paid, not tailored for CS students' local needs

7) Implementation Plan:

- Develop core platform features (resource repository, event updates, login).
- Launch MVP with 10 curated topic-wise resources and event notifications.
- Pilot with CS department students for feedback.
- Expand to include more resources, categories, and real-time update automation.

8) **Recommendation:** Proceed with web platform as the initial phase, followed by mobile app development after successful adoption and feedback from the MVP.