

Project Design Phase

Problem – Solution Fit Template

Date	27 June 2025
Team ID	LTVIP2025TMID31863
Project Name	EduTutor-AI_personalized-learning-with-generative-ai-and-lms-integration
Maximum Marks	2 Marks

Problem – Solution Fit :

Problem-Solution fit canvas 2.0
Purpose / Vision

<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold; font-size: 0.8em;">Define CS, fit into</div> <div> <p>1. CUSTOMER SEGMENT(S) CS</p> <p>Primary Customers:</p> <ul style="list-style-type: none"> Working parents of children aged 6–18. School students preparing for competitive exams (e.g., UPSC, IAS, NEET, JEE). Teachers needing automated assessment tools. Educational institutions (schools, coaching centers) seeking scalable digital solutions. </div> <div style="writing-mode: vertical-rl; font-weight: bold; font-size: 0.8em;">Explore AS</div> </div>	<div style="display: flex; justify-content: space-between; align-items: center;"> <div> <p>6. CUSTOMER CC</p> <p>Constraints:</p> <ul style="list-style-type: none"> Limited spending power (especially in tier-2/3 cities). Inconsistent internet access. Device availability (shared smartphones/laptops at home). Language barriers in regional areas. Lack of tech literacy among some teachers/parents </div> </div>	<div style="display: flex; justify-content: space-between; align-items: center;"> <div> <p>5. AVAILABLE SOLUTIONS AS</p> <p><small>Which solutions are available to the customers when they face the problem or need to get the job done? What have they tried in the past? What pros & cons do these solutions have? I.e. pen and paper is an alternative to digital notetaking</small></p> <ol style="list-style-type: none"> Traditional textbooks and offline tutors. Free quiz apps and YouTube videos. Google Classroom or Moodle (static, not AI-driven). Coaching center. </div> </div>
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold; font-size: 0.8em;">Focus on J&P, tap into BE, understand</div> <div> <p>2. JOBS-TO-BE-DONE / PROBLEMS J&P</p> <p>Jobs/Problems (J&P):</p> <ul style="list-style-type: none"> Students need to practice and get assessed regularly. Parents want to track child progress without micromanaging. Teachers want to save time on quiz creation and grading. Institutions need adaptive learning platforms that improve outcomes. <p>Related Concepts (RC):</p> <ul style="list-style-type: none"> Academic confidence and stress reduction. Personalized feedback and performance tracking. <p>Behavioral Economics (BE):</p> <ul style="list-style-type: none"> Loss aversion: parents fear falling behind in academics. Anchoring: compare AI quizzes with traditional </div> <div style="writing-mode: vertical-rl; font-weight: bold; font-size: 0.8em;">Focus on J&P, tap into BE, understand</div> </div>	<div style="display: flex; justify-content: space-between; align-items: center;"> <div> <p>9. PROBLEM ROOT CAUSE RC</p> <ul style="list-style-type: none"> Traditional education systems lack personalized feedback loops. Teachers are overburdened with manual tasks. Parents can't track progress without constant involvement. The pandemic increased </div> </div>	<div style="display: flex; justify-content: space-between; align-items: center;"> <div> <p>7. BEHAVIOUR BE</p> <p>Direct Behaviours:</p> <ul style="list-style-type: none"> Search for educational tools on Google/YouTube. Ask teachers/friends for recommendations. Download free learning apps. <p>Indirect Behaviours:</p> <ul style="list-style-type: none"> Engage in education WhatsApp groups or Telegram channels. Attend free webinars or school info sessions. </div> </div>
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold; font-size: 0.8em;">Identify strong TR & EM</div> <div> <p>3. TRIGGERS TR</p> <ul style="list-style-type: none"> Student failing to perform well in school/exams. Discovery of the platform via peer recommendation or school integration. Advertisement/social media posts about AI-generated learning. Teacher workshops introducing modern teaching tools. </div> </div>	<div style="display: flex; justify-content: space-between; align-items: center;"> <div> <p>10. YOUR SOLUTION SL</p> <p>EduTutor AI is an AI-powered personalized learning platform that:</p> <ul style="list-style-type: none"> Dynamically generates quizzes based on student progress. Gives immediate feedback and adaptive difficulty. Tracks <u>results</u> over time with visual dashboards. Integrates with Google Classroom or Moodle. Offers gamified learning for higher engagement. Supports multiple languages and works well on low-bandwidth devices. </div> </div>	<div style="display: flex; justify-content: space-between; align-items: center;"> <div> <p>8. CHANNELS of BEHAVIOUR CH</p> <p>8.1 ONLINE CHANNELS:</p> <ul style="list-style-type: none"> Search engines (Google, Bing) YouTube educational videos App Store/Play Store School or teacher-recommended websites Social media (Facebook, Instagram, LinkedIn for teachers) <p>8.2 OFFLINE CHANNELS:</p> <ul style="list-style-type: none"> School announcements or notices PTA meetings Word-of-mouth via neighbours or friends Coaching center referrals </div> <div style="writing-mode: vertical-rl; font-weight: bold; font-size: 0.8em;">Extract online & offline CH of BE</div> </div>
<div style="display: flex; justify-content: space-between; align-items: center;"> <div> <p>4. EMOTIONS: BEFORE / AFTER EM</p> <p>Before:</p> <ul style="list-style-type: none"> Parents: stressed, helpless, confused. Students: overwhelmed, demotivated. Teachers: burdened, limited time. <p>After:</p> <ul style="list-style-type: none"> Parents: confident, reassured. Students: motivated, engaged, in control. Teachers: efficient, supported, productive. </div> </div>		