

Stages	Question	Use Case: Single Player -Varad Bodhad ,Prasad Bachhav	Multiple Player : Suraj Honmane, Ashish Yadav	LeaderBoard : Lavanya, Vanshika	Games: Bhavesh Patil, Bhargavi Chauhan	Brain Enhancement: Harsh, Varad Sabane	Logins: Siddhesh	Mapping	Profile Management		
Vision	What is the big change or positive impact you want your system to create in the world or in your target industry?	These gametend to revive and modernize the traditional Kathiyapadi game ,preserving cultural heritage while creating a game which is not distracting and addictive	Multiplayer interactions across word, puzzle, and number games, making gameplay social, engaging, &competitive	To make learning fun and culturally rich by turning ancient Indian knowledge into an engaging game that boosts brain skills and connects people across ages and languages.	helping people learn and think smarter while enjoying themselves	The big positive impact that will be in the society will be the brain enhancement of the students who are currently learning, and there will be an innovative approach to learning rather than the traditional approach of remembering	To establish a new standard for immersive, culturally-rich interactive entertainment, demonstrating how digital and physical experiences can merge to create deeply engaging challenges and foster a global community around shared discovery.				
	Who will benefit the most from this system?	Students, educators, puzzle lovers, and culture enthusiasts who want to learn and practice Kathiyapadi in a fun way.	Social gamers , competitive players	Players of all ages, especially kids, will benefit the most as the leaderboard motivates them to improve, think faster, and enjoy healthy competition.	puzzle lovers worldwide, cultural enthusiasts, educators	The most who will be benefitted from this system will be students.	Casual game players (10+) who love puzzles, unique interactive experiences, and friendly competition. This includes those interested in cultural themes and anyone seeking a truly novel gameplay loop.				
	In an ideal future (5–10 years from now), how will your system have changed the way users work/live/behave?	It will make Kathiyapadi widely known and used, blending tradition with modern puzzles to people naturally use it in learning, problem-solving, and cultural games.	Connecting players globally, enhancing engagement & building a strong gaming community.		a go-to game for brain training + cultural learning, integrated into schools, cultural centers, and online platforms for both entertainment and education	The ideal future of the system will be the everyone who are using the system will able to learn new things and will enhance brain through creative interactive games. And a likely there will be a digital system that will be available on a internet.	It will normalize "DigiPhysical" as a compelling form of entertainment, encouraging users to engage with both digital content and tangible objects as part of a unified game world, fostering a more active and multi-faceted approach to leisure and learning.				
	If your system disappeared tomorrow, what would your users miss the most?	They will miss the unique cultural puzzles, brain-training challenges, and the satisfying progression system.	They will miss real-time multiplayer features, social interactions, and competitive challenges.	They would miss the thrill of seeing their name climb the leaderboard, the motivation to keep improving, and the fun of competing and learning with others in real time.	Users will miss its unique mix of decoding, culture, and fun challenges.	The user will most likely miss the interactive way of learning. And also they will miss the gamified way of learning.	The seamless integration of digital puzzles with physical components (map pieces, lockboxes), the thrill of collecting artifacts, the challenge and fun of the puzzles themselves, the AI hints, and the dynamic competition of the Dynasty Ledger.				
Mision	What specific problem(s) does your system solve?	Lack of fun ways to learn Kathiyapadi and solve puzzles with a self paced tutorial based learning .	Lack of smooth multiplayer functionality, matchmaking, and real-time interactions	It solves the problem of keeping users, especially kids, engaged in a productive, brain-stimulating activity by combining learning, culture, and fun, while the leaderboard adds motivation, healthy competition, and a clear way to track progress	Learning is often boring, heritage-based puzzles are rare, Limited awareness of the Katapayadi system	The specific problem that our system solve is brain rotting issue order. The traditional does not help students to learn things or gamify the learning system. Also, it will make screen time productive and least destructive.	Addresses the demand for innovative, multi-dimensional gaming experiences that go beyond traditional digital formats, while providing engaging puzzles and fostering community.				
	How exactly will it solve these problems (key methods, approaches, or technologies)?	Implement smooth online single-player modes with progressive difficulty, hints, and scoring systems.Tech stack: Firebase (for saving progress & leaderboards).	We have to Implement real-time networking, matchmaking, session management, and synchronization . tech stack- WebSockets, Firebase Realtime Database	Gamification with a Leaderboard – to keep players motivated through real-time rankings and rewards.	Fun game modes using decoding, images, stories, riddles, and adventures.	Our system solves this issue is via a mapping system where a 0 to 9 numbers are mapped to individual characters in the English alphabet system.And this map are later used to guess the word, image or a tell a story via number, and the user has to guess the words which the questions are asked through the system.	Through a unique DigiPhysical design (integrating physical map fragments, Sutra Unlock boxes), diverse digital puzzles (Katapayadi, etc.), collectible artifacts (Artifact Viewer), competitive leaderboards (Dynasty Ledger), and intelligent AI assistance (Oracle Hints), all within a cohesive, aesthetically pleasing game world.				
	Who are your primary users and what's your scope of service for them?	Students aged 5-12, language learners, heritage enthusiasts, adults wanting solo brain exercise.	Students aged 13+ (As it is Multiplayer)		Primary users would be from age 12 - 30, global audience	The primary user of a system are students, and whoever wants to learn or let's say teenagers and adults who are trying to increase their knowledge as well as reasoning and aptitude.	Casual game players (17+) who enjoy puzzles, collection, competition, and novel interactions. We provide a platform for diverse puzzle challenges, physical object interaction, digital collection and exploration, community ranking, and intelligent in-game support.				
	What principles or values will guide your system's development and decisions?	Traditional learning is boring, puzzle apps lack cultural depth, and most study tools feel like work instead of play.	Reliability, fairness, and smooth user experience.		Smooth accessibility (Easy to use), Playfulness + learning	The principal values that will guide our system are a gamified way of learning and to enhance our brain and to make sure users which are playing our games are enhancing their brain and expanding the knowledge through our gamified learning system.	Innovation in DigiPhysical design, engaging and challenging gameplay, rewarding collection and progression systems, fostering healthy community competition, and leveraging technology (like AI) to enhance the player experience.				
User Research	What types of users do you expect? (List roles, backgrounds, industries, demographics)	Students, teachers, language learners, puzzle enthusiasts, heritage lovers, casual gamers.Age 5+: global audience with an interest in Indian culture, bilingual or multilingual learners, people seeking brain-training activities.	School students, Language learners, Gamers who enjoy puzzles, Adults wanting mental exercise	Players – Children, teens, and young adults Team Leaders – Lead group activities in schools Educators – Teachers or trainers using the leaderboard Parents – Monitor children's performance and encourage learning Event Organizers – Manage rankings during tournaments	puzzle fans, cultural enthusiasts, educators	The primary user of a system are students, and whoever wants to learn or let's say teenagers and adults who are trying to increase their knowledge as well as reasoning and aptitude.	Players (7+ , diverse backgrounds, global, all digital skill levels).				
	What are their main goals related to your system's domain?	Learn and practice Kathiyapadi in a fun, non-academic way. Improve problem-solving, memory, and focus through puzzles.	Play games with friends or strangers in real-time, enjoy collaborative gameplay	Compare results with peers to improve skills. Gain recognition through ranks, badges, and rewards. Encourage continuous participation and learning.	Learn while playing, improve memory, discover culture	Their main goal is to have a gamified system where they can increase the knowledge and enhance their brain capacity.	Quickly and securely access their game progress, collections, and community standing.				
	What frustrations, limitations, or pain points do they face today?	Existing puzzle apps are generic and lack cultural depth.	Traditional learning is boring. Games they play now don't help them learn. Study apps feel like work, not fun.	Lack of transparent or accurate scoring in existing systems. Difficulty tracking progress over time. Limited motivation without viable competition or rewards. Leaderboards that are not visually engaging or user-friendly.	Repetitive games, dry learning	The frustration is that they don't have a system where they can gamify learning experience and learn new things. The frustration is that all the games that are present, are not personalised to a specific domain.	Slow logins, complex sign-up processes, security concerns, losing access.				
	How do they currently solve the problem your system addresses?	Use printed books or worksheets for Kathiyapadi learning (limited engagement). Play unrelated puzzle apps like Sudoku, crosswords, or word search (fun but culturally disconnected).	Single-player modes, asynchronous play, or unreliable multiplayer in existing apps.	Manual tracking using score sheets or Excel tables. Simple, static leaderboards without dynamic updates.	Quiz apps, crosswords puzzles, educational YouTube videos.	We have a gamified learning system. So it resolves the issue of getting brain rot. And also, we are trying to build a various domains, so it is not a general, but are domain specific which also addresses the problem.	Using simple passwords (often reused), relying on third-party platform logins, manually tracking game progress elsewhere.				
	Are there any existing systems/tools they use that you want to improve upon?	Generic puzzle/brain training apps (make them culturally themed). Language-learning apps (add interactive game mechanics).	Word Search battle (fun but repetitive), Classic crosswords (fun but not personalized)	Basic ranking systems without traditional static scoreboards in classrooms, clubs, or events. Basic game ranking lists without badges or personalized identifiers. Simple Excel-based tracking that lacks automation and visual appeal. Generic online leaderboard plugins that do not integrate cultural themes or personalized rewards.	Generic puzzle/brain training apps (make them culturally themed). Language-learning apps (add interactive game mechanics).	There are various gamified learning system present , but they do not contain a specific knowledge base. It is from the internet, which is not verified, and it is not domain specific, and also, the system doesn't provide enough rewards, which makes its interactive learning experience. Also, it's or does not have a country specific knowledge base. Also, there is no such a game available for the country India as of the current date. This game also includes traditional "Katapayadi" system.	Standard email/password logins, social platform integrations (make them seamless).				
	How will you collect feedback from potential users (interviews, surveys, observation, analytics, etc.)?	In-game feedback button, post level , rating prompt,email/sln app surveys	In-game feedback button after few turns of gameplay	Surveys after gameplay sessions to measure satisfaction and gather suggestions. Observation during live games to note user interactions and engagement with the leaderboard. Analytics in the digital version to track rank progression, activity frequency, and badge unlock patterns. Focus groups to test new features like cultural tiles, seasonal events, and team rankings. Age Range: 8–15 years (students), 25–45 years (educators/parents), all ages for casual players.	In-game survey after 3-4 turns of gameplay , Analytics tracking of game completion rates and hint usage.	We have our mentor which is a teacher. So they will be giving their insights on how the students are currently were learning, and this can help us to give me a better system. And also, we will like to interview some of the students that we know pinpoint and as a developer, we are also a student, so it also helps us to make the system a personalised system. So they can learn	User surveys, analytics on login/signup drop-offs, direct feedback forms.				
	What's the user's basic profile (age range, profession, location, digital skills level)?	Age 5–30; students, puzzle enthusiasts, and culturally curious individuals; urban/semi-urban; comfortable with digital devices; medium-to-high digital skills.	Age: 13–30	Profession: Students, teachers, event coordinators, game enthusiasts. Location: Primarily India for initial roll-out; adaptable for international markets. Digital Skills Level: Ranges from beginner (children, offline players) to advanced (tech-savvy gamers, educators familiar with online tools).	12–40 (core)	There will be more currently, 2 specific user personas. First will be a student whose age is less 12 and a student whose the more than 12 and also adult. So they will be a trying to learn various various things through our knowledge base, which is present and the domain that are presented by a system.	12-100 years old, various professions/locations, casual to advanced digital skills, primarily accessing via web browser.				
	What motivates them to use your system?	Enjoyment of puzzles, desire to improve problem-solving skills, cultural learning, personal achievement through scoring and getting rewards.	Rewards and Leaderboard	Desire to see progress and rankings in real time. Recognition through ranks, badges, and rewards. Friendly competition with peers or teams. Opportunity to showcase cultural knowledge and skills	Variety – multiple game modes , curiosity to learn more about the heritage and culture	The motivation will that whatever they are learning will be, a gamified learning. And also, they will be rewarded on basis of their performance and they can share there a rewards and performance via internet or a share option. Also, competitiveness and excitement of puzzle solving.	To start playing, continue progress, access features like the Ledger and Artifacts, and ensure their account is safe.				
	What barriers might stop them from adopting it?	Lack of awareness about the Katapayadi system; initial complexity of decoding; low patience for learning rules.	Poor connectivity, lag, complex onboarding, unreliable matchmaking.	No device access (digital). Low interest if leaderboard is dull or unclear	"too academic" , bloated UI , buggy interface	The barrier that might stop adopting the system might be the country of the knowledge that is present. They may find the rewards less appealing and the reward system a bit less appealing that might resist from adopting this system.	Complex or long sign-up, requiring too much personal info, perceived security risks, inability to recover accounts.				

