### LEARN AND PLAY FOR NOMAD CHLDREN

## A PROJECT REPORT

Submitted by

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In partial fulfilment of requirements for the award of the course

## **AGB1211-DESIGN THINKING**

IN

COMPUTER SCIENCE AND ENGINEERING

(ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)



K. RAMAKRISHNAN COLLEGE OF ENGINEERING (AUTONOMOUS)
SAMAYAPURAM, TRICHY



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## LEARN AND PLAY FOR NOMAD CHILDREN

#### PROJECT FINAL DOCUMENT

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of

## **BACHELOR OF ENGINEERING**

IN

COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

### Under the Guidance of

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### BONAFIDE CERTIFICATE

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NAME:	NAME:
DATE:	DATE:

## **DECLARATION BY THE CANDIDATE**

I declare that to the best of my knowledge the w	work reported here in has been composed solely
by myself and that it has not been in whole or ir	n part in any previous application for a degree.

Submitted for the project Viva-Voice held at K. Ramakrishnan College of Engineering on

SIGNATURE OF THE CANDIDATE

### **ACKNOWLEDGEMENT**

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### INSTITUTE VISION AND MISSION

## **VISION OF THE INSTITUTE:**

To achieve aprominent position among the top technical institutions.

#### **MISSIONOFTHE INSTITUTE:**

M1:To be show standard technical education excellence through state of heart infrastructure, competent faculty and high ethical standards.

**M2:**To nurture research and entrepreneurial skills among students in cutting edge technologies.

**M3:**To provide education for developing high-quality professionals to transform the society.

## DEPARTMENT VISION AND MISSION

# DEPARTMENT OF CSE(ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

## **Vision of the Department**

To become a renowned hub for Artificial Intelligence and Machine Learning technologies to produce highly talented globally recognizable technocrats to meet industrial needs and societal expectations.

## Mission of the Department

M1: To impart advanced education in Artificial Intelligence and Machine Learning, built upon a foundation in Computer Science and Engineering.

**M2:** To foster Experiential learning equips students with engineering skills to tackle real-world problems.

**M3:** To promote collaborative innovation in Artificial Intelligence, machine learning, and related research and development with industries.

**M4:** To provide an enjoyable environment for pursuing excellence while up holding strong personal and professional values and ethics.

## **Programme Educational Objectives (PEOs):**

Graduates will be able to:

**PEO1**: Excel in technical abilities to build intelligent systems in the fields of Artificial Intelligence and Machine Learning in order to find new opportunities.

**PEO2:** Embrace new technology to solve real-world problems, whether alone or as a team, while prioritizing ethics and societal benefits.

**PEO3:** Accept life long learning to expand future opportunities in research and product development.

## **Programme Specific Outcomes (PSOs):**

**PSO1:** Ability to create and use Artificial Intelligence and Machine Learning algorithms, including supervised and unsupervised learning, reinforcement learning, and deep learning models.

**PSO2:** Ability to collect, pre-process, and analyze large datasets, including data cleaning, feature engineering, and data visualization..

## PROGRAM OUTCOMES(POs)

Engineering students will be able to:

- 1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 2. **Problem analysis:**Identify,formulate,review research literature,and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences
- 3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations
- 4. Conduct investigations of complex problems: Use research-based

knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions

- **5. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations
- 6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice
- 7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development
- **8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10. Communication: Communicate effectively on complex engineeringactivities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- 11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one'sown work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- 12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

## **ABSTRACT**

The project "Learn and Play for Nomad Children" aims to address the educational challenges faced by nomadic communities. By integrating learning with play, it provides a flexible and mobile educational framework tailored to their lifestyle. Through design thinking, the project identifies key needs and proposes solutions such as portable learning kits and game-based teaching tools. These innovations ensure education is accessible, engaging, and culturally sensitive. The approach focuses on fostering creativity, inclusivity, and adaptability in nomadic children. By preserving cultural identity while ensuring quality education, the project empowers nomad children for a brighter future.

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## LIST OF ABBREVIATIONS

## **ABBREVIATIONS**

**DLL** Doubly Linked List

UI User Interface

CLI Command Line Interface

GUI Graphical User Interface

NLP Natural Language Processing

GUI Graphical User Interface

**APIs** Application Programming Interface

### **CHAPTER 1**

#### INTRODUCTION

### 1.1 INTRODUCTION

Education for nomadic children is often disrupted due to their mobile lifestyleand limited access to resources. The project "Learn and Play for Nomad Children" addresses these challenges by designing an innovative educational framework that integrates learning with play. This framework adapts to the unique needs of nomadic families, ensuring that children can acquire foundational skills while maintaining their cultural identity.

### 1.2 PURPOSE AND IMPORTANCE

The purpose of this project is to bridge the educational gap faced by nomadic children by providing accessible, engaging, and portable learning solutions. This initiative is important because it fosters inclusivity and equal opportunities for education, helping children from marginalized communities develop essential life skills. By prioritizing both learning and play, the project enhances cognitive and social development in a sustainable and culturally respectful manner.

#### 1.3 OBJECTIVES

- 1. To design portable educational tools that can adapt to the nomadic lifestyle.
- 2. To integrate play-based learning methods that promote engagement and creativity.
  - 3. To ensure the solutions are culturally relevant and easy to implement.
- 4. To empower nomad children with foundational knowledge and skills for future opportunities.
  - 5. To create a replicable model that can be scaled to other nomadic or marginalized communities.

#### 1.4 PROJECT SUMMARIZATION

The project "Learn and Play for Nomad Children" aims to tackle the unique educational challenges faced by nomadic communities, whose children often lack access to consistent learning opportunities. By integrating play-based learning methods, the project ensures that education is both engaging and adaptable to their mobile lifestyle. Through portable learningkits, interactive storytelling, and culturally relevant materials, the project provides tools that empower children to develop essential skills while preserving their cultural identity.

Leveraging design thinking principles, the project emphasizes understanding the needs of nomadic families and co-creating solutions with them. The framework is flexible, inclusive, and sustainable, making it a replicable model for other marginalized or mobile communities. Ultimately, the project strives to bridge educational gaps, foster creativity, and empower nomad children for a brighter and more inclusive future.

#### **CHAPTER 2**

## SYSTEM DESING & METHODOLOGY

#### 2.1. SYSTEM ARCHITECTURE OVERVIEW

The **system architecture** describes the components, their interactions, and how they function to support the needs of nomad children. The key modules include:

## **Key Components**

## 1. User Interface Layer

- Mobile App or Web Portal: Accessible via smartphones, tablets, or computers, tailored for nomad children with simplified navigation and multi-language support.
- Interactive Learning Tools: Includes gamified learning modules, audio-visual lessons, and quizzes.

## 2. Application Layer

- Learning Management System (LMS): Manages content delivery, tracks user progress, and provides feedback.
- Game Engine: Handles interactive games and play activities aligned with learning objectives.
- o **Activity Tracker**: Records user activities, playtime, and learning milestones.

## 3. Data Layer

- Database: Stores user profiles, progress data, learning resources, and game records.
- Content Repository: Houses multimedia content (videos, images, games)
   optimized for low-bandwidth access.

## 4. Communication Layer

 Enables synchronization of data between offline and online modes for nomadic areas with limited connectivity.

## 5. External Interfaces

- o NGO/School Admin Portal: For monitoring progress and curriculum customization.
- External APIs: Integration with mapping tools (to track locations) and translation APIs for diverse languages.

## 2.2 DETAILED SYSTEM ARCHITECTURE DIAGRAM

Include a diagram that visually represents the system architecture. The diagram should depict how each component interacts with the others. For example, it can show the User Interface sending requests to the Application Logic, which in turn interacts with the Flight Route Planner

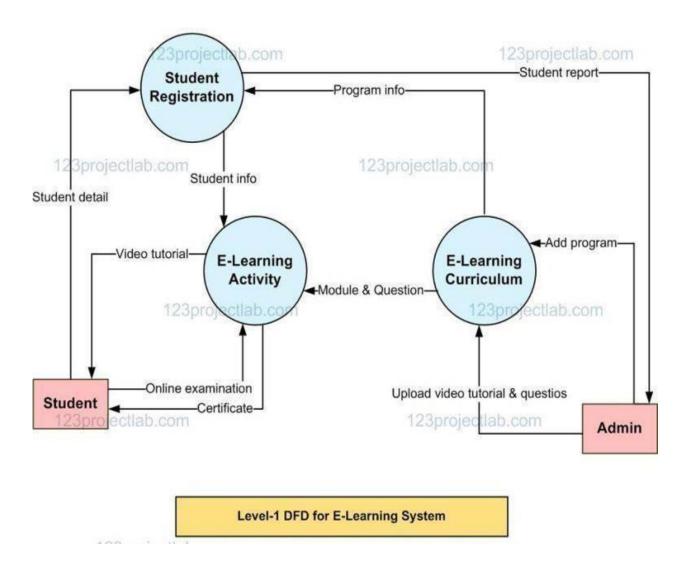


Figure 2.1: Architecture Diagram (Sample)

#### **CHAPTER 3**

#### AI-DRIVEN LEARN & PLAY

## 3.1 Adaptive Learning through AI

#### Overview:

AI customizes educational content based on the learner's progress, strengths, and weaknesses. It uses machine learning algorithms to dynamically adjust the difficulty level of quizzes, games, and lessons.

## Key Features:

- o Performance-based content adjustment.
- o Tracking and analyzing user behavior for personalized recommendations.
- Gamified rewards to encourage continuous learning.

## • Technology Used:

- Reinforcement Learning (RL) to optimize learning paths.
- o TensorFlow.js for browser-based ML models.

## 3.2 Multilingual and Accessibility Features

#### Overview:

The system supports multiple languages and includes accessibility features for children with different needs, such as speech-to-text and text-to-speech options.

### • Key Features:

- o Real-time translation using Natural Language Processing (NLP).
- Voice commands for ease of navigation.
- o Inclusive design with audio-visual learning materials.

## • Technology Used:

- o NLP models like BERT or GPT for translation and language understanding.
- Web Speech API for voice interactions.

## 3.3 Offline and Online Integration

## Overview:

The app is designed to work seamlessly both offline and online, ensuring consistent learning experiences in remote areas with limited connectivity.

## • Key Features:

- o Local storage to save progress and preloaded AI models for offline usage.
- o Cloud sync for data backup and cross-device access when internet is available.
- Modular updates for learning content without disrupting the app's functionality.

## • Technology Used:

- o IndexedDB or LocalStorage for offline data storage.
- Firebase or AWS for cloud-based data synchronization.

#### **CHAPTER-4**

### **DISICIPLINARY ACTION MACHANISMS**

## 4.1 Disciplinary Action Mechanisms

In the context of an educational app like **AI-Driven Learn & Play**, disciplinary action mechanisms should encourage positive behavior, promote consistent engagement, and help users understand the importance of rules. The mechanisms must be constructive, especially for children, and align with the app's goal to create a fun and educational experience. Here are three essential subtopics under this theme:

## 4.2 Gamified Feedback for Negative Behavior

### Overview:

Instead of punitive measures, the app uses gamified feedback to gently correct undesired behaviors or actions (e.g., exiting the app too soon, skipping content, or repeatedly making incorrect choices).

### Mechanisms:

- o Display friendly prompts or hints encouraging retry attempts.
- Temporary "cool-down" periods where certain game features are locked,
   motivating children to reflect before trying again.
- o Small point deductions or "loss of stars" as a subtle consequence.

## Impact:

- Promotes accountability without causing frustration.
- Reinforces the value of perseverance and learning from mistakes.

#### 4.3 Reward-Based Behavior Reinforcement

#### Overview:

The app discourages disengagement or misuse by tying rewards to positive behaviors rather than focusing solely on punitive measures.

#### Mechanisms:

- Streak Systems: Reward children for completing activities daily, encouraging consistency.
- Incentivized Unlocks: Certain content or features are only accessible after achieving behavioral milestones.
- Leaderboard Tracking: Allows children to compare their performance with peers or their past records, encouraging fair play.

## Impact:

- o Reduces disruptive behavior by focusing on motivation rather than punishment.
- Builds a sense of achievement and self-discipline.

#### 4.4 Educational Interventions for Persistent Issues

#### Overview:

For repeated undesirable behaviors, the app can provide tailored educational interventions rather than strict penalties.

#### Mechanisms:

- Offer a simplified or guided version of the activity to help the child succeed and rebuild confidence.
- Notify parents or guardians (with consent) about progress or areas of concern, enabling external support.
- Use AI to analyze patterns of behavior and suggest improvements or alternative learning paths.

## Impact:

- o Encourages resolution and improvement rather than focusing on the failure.
- Engages caregivers in the child's learning process.

#### **CHAPTER-5**

#### **MODULES**

#### 5.1 Gamified Behavior Correction

## **Explanation:**

Gamified behavior correction mechanisms ensure that disciplinary actions are framed positively to maintain engagement. When children make errors or behave in an unintended manner (e.g., repeatedly giving wrong answers or closing the app too soon), the system provides constructive feedback through engaging visuals, friendly prompts, and small in- game consequences.

#### **Features:**

- Interactive Hints: Encourage children to try again with motivational messages like"You're almost there! Give it another shot!"
- **Temporary Cool-downs**: For repeated mistakes, the system can lock certain activitiestemporarily and encourage reflection.
- **Visual Rewards for Corrections**: If the child corrects their mistakes, they are rewarded with stars or badges, reinforcing the behavior positively.

## **Advantages:**

- Keeps the child motivated without punitive measures.
- Encourages perseverance and learning from mistakes.

#### 5.2 Reward-Based Behavior

#### Reinforcement

## **Explanation**:

This mechanism focuses on using rewards to encourage desirable behaviors. Positive reinforcement, such as awarding points, badges, or unlocking new levels, motivates children

to follow rules, complete tasks, and actively engage with the learning system.

#### Features:

- **Daily Streak System**: Encourages consistency by rewarding children for logging in and completing activities daily.
- Leader board and Social Sharing: Introduces friendly competition, where children can compare their achievements with peers or family.
- Goal-Oriented Rewards: Unlocking advanced levels or receiving virtual trophies upon completing specific milestones encourages task completion.

## **Advantages:**

- Builds a sense of achievement.
- Reduces chances of disengagement by focusing on rewards rather than penalties.
- Helps children associate positive behaviors with tangible outcomes.

## **5.3** Tailored Educational Interventions Explanation:

For persistent issues like repeated failures or disengagement, the system adapts the learning process instead of penalizing the child. Educational interventions provide simplified content, alternative approaches, or personalized feedback to address learning gaps.

#### Features:

- Adaptive Content Difficulty: AI adjusts the difficulty of quizzes or games based on user performance, offering easier tasks when a child struggles.
- **Guided Tutorials**: The app temporarily switches to a tutorial mode to guide the child step-by-step.
- **Parental Notifications**: With parental consent, performance reports can be shared to involve guardians in supporting the child's progress.

## **Advantages:**

- Encourages improvement and builds confidence.
- Prevents frustration by offering support rather than punishment.
- Strengthens parental involvement in the child's learning journey.

#### **CHAPTER 6**

#### **CONCLUSION & FUTURE SCOPE**

#### **6.1 CONCLUSION**

The AI-Driven Learn & Play system provides an innovative, engaging, and effective way to address the educational needs of nomadic children. By leveraging adaptive learning techniques, gamified feedback, and multilingual support, the system ensures that children receive personalized and accessible education. The project demonstrates the potential of technology to bridge educational gaps in underserved communities, fostering a love for learning while promoting consistent engagement through an interactive, game-based approach.

## Key achievements include:

- Enhancing learning experiences through AI-driven personalization.
- Encouraging positive behavior with gamified rewards and constructive disciplinaryactions.
- Promoting inclusivity with multilingual and accessibility features.
- Addressing connectivity challenges through offline capabilities.

This system highlights the transformative role of AI in education, making it a stepping stonetoward more inclusive and effective learning environments.

#### **6.2 FUTURE SCOPE**

The potential future advancements of the **Learn & Play system** include:

### **Advanced AI Personalization**

• Incorporate deeper AI capabilities, such as emotional recognition, to adapt learningcontent based on the child's mood and engagement levels.

• Develop predictive models to recommend future learning paths or suggest interventions for struggling learners.

## **Community and Peer Learning**

- Introduce collaborative learning features, allowing children to interact with peers through virtual classrooms or shared activities.
- Implement peer leader boards and group challenges to enhance motivation.

## **Global Expansion and Language Diversity**

- Expand multilingual capabilities to include more regional and indigenous languages, making the app accessible to a broader audience.
- Integrate real-time voice translation for spoken languages to aid verbal communication.

#### **Enhanced Gamification**

- Add augmented reality (AR) and virtual reality (VR) elements for immersive learning experiences.
- Introduce dynamic storylines that evolve based on the child's choices, encouraging critical thinking and creativity.

#### Parental and Teacher Dashboards

Provide comprehensive dashboards for parents and educators to track progress,
 identify areas needing improvement, and customize content for specific needs.

## **Integration with IoT Devices**

- Leverage IoT devices like smart boards or tablets for group learning activities in community centers or schools.
- Enable data synchronization between devices for seamless learning transitions.

## **Research and Development**

- Conduct longitudinal studies to assess the impact of the app on children's learning outcomes and adapt the system accordingly.
- Collaborate with educational psychologists and curriculum designers to refine content.

#### **APPENDICES**

#### APPENDIX A-SOURCE CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Learn and Play for Nomad Children</title>
  <!-- Connect the CSS file -->
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <header>
    <h1>Learn and Play</h1>
    Welcome! Choose a language to start:
    <select id="languageSelector">
       <option value="english">English</option>
       <option value="arabic">Arabic</option>
       <option value="swahili">Swahili</option>
    </select>
  </header>
  <main>
    <section id="game">
       <h2>Interactive Learning</h2>
       <button id="startGame">Start Learning Game</button>
      <div id="gameArea" style="display:none;">
         <p id="question">What is 2 + 2?
         <button class="answer" data-correct="false">3</button>
         <button class="answer" data-correct="true">4</button>
         <button class="answer" data-correct="false">5</button>
       </div>
    </section>
  </main>
```

```
<footer>
     © 2024 Learn and Play Initiative
  </footer>
  <!-- Connect the JavaScript file -->
  <script src="app.js"></script>
</body>
</html>
/* Basic Styling for the App */
body {
  font-family: Arial, sans-serif;
  text-align: center;
  background-color: #f9f9f9;
  color: #333;
header {
  background-color: #4CAF50;
  color: white;
  padding: 20px;
}
main {
  margin: 20px;
}
button {
  padding: 10px 20px;
  margin: 10px;
  border: none;
  background-color: #007BFF;
  color: white;
  font-size: 16px;
  cursor: pointer;
}
button:hover {
```

```
background-color: #0056b3;
}
footer {
  background-color: #333;
  color: white;
  padding: 10px;
  position: fixed;
  bottom: 0;
  width: 100%;
}
// Language Selector
const languageSelector = document.getElementById('languageSelector');
languageSelector.addEventListener('change', (e) => {
  alert(`Language switched to: ${e.target.value}`);
});
// Start Game Button
const startGameBtn = document.getElementById('startGame');
const gameArea = document.getElementById('gameArea');
startGameBtn.addEventListener('click', () =>
  { gameArea.style.display = 'block';
  alert('Game Started! Let's learn and play!');
});
// Answer Buttons
const answers = document.querySelectorAll('.answer');
answers.forEach((button) => {
  button.addEventListener('click', (e) => {
     const isCorrect = e.target.getAttribute('data-correct') === 'true';
     if (isCorrect) {
       alert('Correct! Great job!');
     } else {
       alert('Oops! Try again.');
  });
});
```

# APPENDIX B - SCREENSHOTS RESULT AND DISCUSSION

