A Major Project Synopsis on

**E-Learning with Manipal**

Submitted to Manipal University, Jaipur

Towards the partial fulfillment for the Award of the Degree of

**MASTER OF COMPUTER APPLICATIONS**

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by

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1. **Introduction**

In today’s rapidly evolving world, learning is no longer confined to traditional classrooms—it needs to be flexible, accessible, and engaging. **E-Learning with Manipal** is an innovative e-learning platform designed to empower individuals with knowledge and skills that drive success in education, careers, and personal growth. Whether you're a student looking to strengthen your academic foundation, a professional aiming to upskill, or an entrepreneur exploring new opportunities, our platform offers expert-led courses across a wide range of subjects, from technology and business to creative arts, health, and personal development. With our self-paced, and interactive learning environment, you can study anytime, anywhere—at your convenience.

Whether you’re a student striving for academic excellence, a professional looking to upskill, or an entrepreneur eager to explore new domains, our platform offers **limitless learning possibilities**—all at your fingertips.

Why you should choose us?

* 1. Learn anytime, anywhere
  2. Expert-led courses
  3. Interactive & engaging content
  4. Personalized learning experience
  5. Community & support

1. **Motivation**

Our services include:

1. For Students
   1. Students are login/register
   2. Students can see CoursePage with all the content of the course
   3. Students  can involve in discussion form
   4. Students can access dashboard
2. For Teachers
   1. Teacher can login/register
   2. Teacher can see their uploaded courses
   3. Teacher can delete their course
   4. Teacher can edit their course
   5. Teacher can involve in discussion forum
3. **Problem Statement**

Despite advancements in technology, millions of individuals still struggle to access quality education due to cost barriers, lack of resources, and inflexible learning systems. Traditional education often fails to provide personalized learning experiences, leading to disengagement and ineffective skill development. Additionally, many existing online learning platforms lack interactivity, real-world applications, making it difficult for learners to translate their knowledge into tangible career growth. Manipal Online addresses these challenges by offering affordable, expert-led, and interactive courses that empower individuals to learn at their own pace, gain hands-on experience. By leveraging cutting-edge technology, AI-driven recommendations, and a community-driven approach, we are redefining the way the world learns—one course at a time.

1. Lack of engagement due to passive learning methods.
2. Limited interaction between instructors and students.
3. Digital divide and accessibility issues in remote areas.
4. **Methodology/ Planning of work:**
5. Creating the UI of the project using React JS which will include different components, such as,
   1. Login
   2. Registration
   3. Home
   4. Courses
   5. Dashboard
   6. Profile
6. Creating different portals:
   1. **Student Portal**
      1. Purchase course
      2. Access dashboard
      3. Discussion forums
      4. Course Page
      5. Contact Us
   2. **Teachers Portal**
      1. Create course
      2. Delete course
      3. Edit prices
      4. View lectures
      5. Discussion forum
7. Working with backend using:
   1. MongoDB
8. **Requirements for proposed work:**
9. Software Requirement:
   1. Operating System: Windows
   2. User Interface: React JS
   3. Database: MongoDB
   4. Backend: Node JS, Express JS
10. Hardware Requirement:
    1. Hardware: Pentium based systems with a minimum of P4
    2. RAM: 256MB (minimum)
    3. Hard Disk: 10 GB Hard Disk Space
11. **Bibliography/References**

1. Ghirardini, B. (2011). E-learning methodologies: A guide for designing and developing e-learning courses. Food and Agriculture Organization of the United Nations.
2. Sangrà, A., Vlachopoulos, D., & Cabrera, N. (2012). Building an inclusive definition of e-learning: An approach to the conceptual framework. The International Review of Research in Open and Distributed Learning (IRRODL).
3. Coursera (Online Courses & Specializations)
4. Udemy (Online Learning Marketplace)
5. Khan Academy (Free Education Platform)
6. xAPI (Experience API) - Advanced tracking for learning experiences