# Project Expense Report for Web Application Hosting & Deployment (Yearly Overview)

## Technology Stack

- Database: MongoDB Atlas (Cloud)  
- Hosting Provider: Render.com (Cloud-based Hosting)  
- Domain Provider: Google Domains

## Estimated Yearly Expenses

|  |  |  |
| --- | --- | --- |
| Component | Description | Cost (INR) Per Year |
| Render Cloud Hosting | Hosting Flask backend and frontend services | ₹20,400 |
| MongoDB Atlas (Database) | Cloud-hosted NoSQL database (M0 paid tier) | ₹31,200 |
| Domain Name (Google Domains) | Yearly domain registration and DNS management | ₹1,500 |

➡️ Total Estimated Yearly Cost: ₹53,100

## Purpose of Deployment

This deployment is designed to provide:  
  
- 24x7 global availability of the web platform  
- Scalable and reliable cloud backend using Flask and MongoDB  
- Secure and professional domain presence  
- Centralized access to university and institutional resources

## Service Summary

|  |  |  |
| --- | --- | --- |
| Service | Platform | Type/Access |
| Backend/API | Flask on Render | REST API, Gunicorn, CORS enabled |
| Database | MongoDB Atlas | Cloud-based secured cluster |
| Domain | Google Domains | HTTPS with custom DNS configuration |

## Final Note

This system is fully operational and built to scale efficiently with minimal maintenance.   
The overall investment ensures:  
  
- High availability  
- Secure data handling  
- Professional-grade deployment  
- Sustainability for public or institutional use

## Requirements and Specification as Full-Time Employee

• Specs: Intel Core i7 12700, 8 GB RAM, 256 GB SSD + 1 TB HDD, Windows 11, 1 headphones, HDMI cable  
• Why it’s great:  
• Powerful 12-core CPU suitable for multi-tasking and office work  
• Combo storage balances speed and capacity  
• Prebuilt with warranty and support—no hassle  
• Ideal for: Smooth office use, fast boot times, and running dev tools with ease