Final Internship Projects - 8 Week Program

Dear Interns,

Congratulations on reaching the final 2 weeks of your 8-week internship program! In this phase, you are required to complete a final project in your respective domain. You are free to use any technology stack that suits your project, even beyond the suggested ones below. The goal is to build a working, professional-grade application or solution.

Submission Guidelines:
1. Select ONE project from the two options provided for your domain.
2. Create a complete GitHub repository containing:
   - Source code
   - A professional README.md file with project description, setup instructions, screenshots, and usage guide
   - Documentation (if applicable)
3. Ensure your code is clean, well-commented, and follows best practices.
4. Submit the GitHub repository link before the deadline.

Wishing you all the best in your final project journey!

Domain	Project Option 1	Project Option 2
Python Programming	Inventory Management System – Manage products, sales, and stock. Tech: Python, SQLite/MySQL, Tkinter/PyQt	Expense Tracker App – Track daily expenses with categories and reports. Tech: Python, Pandas, Matplotlib, SQLite
Java Programming	Library Management System – Manage books, members, and loans. Tech: Java, JavaFX, MySQL	Student Attendance System – Mark/store attendance, generate reports. Tech: Java, JDBC, MySQL
Web Development	Portfolio Website – Interactive personal site. Tech: HTML, CSS, JavaScript	Online Food Ordering Website – Menu, cart, checkout. Tech: HTML, CSS, JS, PHP/MySQL
Full Stack Development	Job Portal – Employers post jobs, applicants apply. Tech:	E-Learning Platform – Courses, quizzes, tracking.

	React, Node.js, Express, MongoDB	Tech: Angular, Node.js, MySQL
Computer Networking	Network Monitoring Tool – Monitor devices & bandwidth. Tech: Wireshark, Python Sockets	LAN Chat Application – Real-time messaging over LAN. Tech: Python, Socket Programming
DevOps	CI/CD Pipeline Setup – Automate deployments. Tech: Jenkins, Docker, GitHub Actions	Containerized Web App – Deploy with Docker & Kubernetes. Tech: Docker, Kubernetes, Nginx
Cyber Security	Vulnerability Scanner – Scan sites for vulnerabilities. Tech: Python, Nmap, OWASP ZAP	Secure File Encryption Tool – Encrypt/decrypt files. Tech: Python, AES/RSA
MERN Stack Development	E-Commerce Store – Products, cart, checkout. Tech: MongoDB, Express, React, Node.js	Event Booking App – Book/manage event tickets. Tech: MERN, Stripe API
UI/UX Design	Mobile Banking App Redesign – Improve usability. Tech: Figma, Adobe XD	E-Commerce Website UI Kit – Full UI components. Tech: Figma, Sketch
Artificial Intelligence	Chatbot for FAQs – Predefined queries. Tech: Python, NLP, Rasa	Image Classifier – Classify objects in images. Tech: Python, TensorFlow/Keras
Network Security	Firewall Simulation – Packet filtering. Tech: Linux IPTables	Network Intrusion Detection – Monitor for threats. Tech: Snort, Wireshark
C++ Programming	Bank Management System – Manage accounts. Tech: C++, File Handling	Student Grade Calculator – Compute grades. Tech: C++
AI & Deep Learning	Face Mask Detection – Detect masks in images. Tech: Python, OpenCV, TensorFlow	Handwritten Digit Recognition – MNIST dataset. Tech: Python, Keras

Data Science	Sales Data Analysis – Visualize KPIs. Tech: Python, Pandas, Matplotlib	Customer Segmentation – Group via ML. Tech: Python, Scikit-learn
Frontend Development	Weather App – Live API data. Tech: HTML, CSS, JavaScript	Quiz App – Interactive quiz & scoring. Tech: HTML, CSS, JS
Social Media Marketing	Instagram Campaign Analysis – Engagement metrics. Tech: Excel, Canva	Content Calendar Plan – Schedule 1 month posts. Tech: Google Sheets, Canva
AI/ML Engineering	Stock Price Prediction – Predict prices. Tech: Python, Scikit-learn	Spam Email Classifier – Spam/ham classification. Tech: Python, NLP
Backend Web Development	Blog API – CRUD operations. Tech: Node.js, Express, MongoDB	User Authentication API – JWT login. Tech: Node.js, Express, MySQL
Blogging and Content Strategy	Niche Blog Setup – Write/publish 5 articles. Tech: WordPress, SEO Tools	Content Audit – Improve SEO. Tech: Google Analytics, SEMrush
Graphic Design	Brand Logo Kit – Main logo + variations. Tech: Adobe Illustrator, Canva	Social Media Ad Set – Campaign graphics. Tech: Photoshop, Figma
SQA / QA	Automated Test Scripts – For a web app. Tech: Selenium, Python	Manual Testing Report – Document bugs. Tech: Excel, JIRA
SQL Programming	Hospital Database – Manage patients & appointments. Tech: MySQL/PostgreSQL	Online Bookstore DB – Inventory/orders. Tech: MySQL
Digital Marketing	Google Ads Campaign – Create/monitor ads. Tech: Google Ads, Canva	SEO Optimization Plan – Improve ranking. Tech: SEMrush, Google Search Console
Game Development	2D Platformer Game – Side-scroller. Tech: Unity, C#	Puzzle Game – Multiple levels. Tech: Godot, GDScript
Flutter Development	Expense Tracker Mobile	Recipe App – Browse/save

	App – Track budgets. Tech: Flutter, Firebase	recipes. Tech: Flutter, SQLite
Machine Learning	House Price Prediction – Regression model. Tech: Python, Scikit-learn	Movie Recommendation System – Collaborative filtering. Tech: Python, Pandas

Final Notes:

You are required to complete your chosen final project within the remaining two weeks of the internship. After successful checking and reviewing of your complete internship work, including this final project, the CosmiCode team will contact you regarding further steps and official internship completion acknowledgment.

We look forward to seeing your creativity, technical skills, and dedication reflected in your final submission.