Mastering Django RestAPI Development

(Website: www.aiquest.org, Cell: +8801704265972)

Basic to Advanced

dj Django

REST Framework

● LIVE

মোট ক্লাস: 25 টি;

কোর্সের সময়কাল: 50 ঘন্টা

ক্লাসের সময়: 8:00PM (2 ক্লাস/সপ্তাহ)

কোর্স ফি: 6000 টাকা

TO ENROLL ●

www.aiquest.org

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Course Instructor

Mr. Abu Noman

Django Developer at aiQuest Int.

Free Courses Made By Instructor: Course Link

Course Instructor:

Md. Abu Noman Basar

Web Developer, aiQuest Intelligence

Module Contents: 50 Hours

Module 1: Introduction to Django RestAPI (Duration: 2 Hours)
- Understanding RESTful APIs
- Benefits of using Django RestAPI
- Setting up a Django project for API development
- Creating a basic API endpoint

Module 2: Serialization and Deserialization (Duration: 4 Hours)
- Serializers in Django RestAPI
- Serializing complex data types
- Deserialization and validation
- Customizing serialization behavior
- Assignment **

Module 3: Views and ViewSets (Duration: 6 Hours)
- Class-based views vs. function-based views
- Creating API views for different resources
- Using ViewSets for concise code
- Understanding generic views and mixins
- Assignment **

Module 4: Authentication and Authorization (Duration: 5 Hours)
- Token-based authentication
- OAuth2 and JWT authentication
- User authentication and permissions
- Role-based access control
- Assignment **

Module 5: Pagination, Filtering, and Searching (Duration: 4 Hours)
- Pagination strategies for large datasets
- Implementing filters and querysets
- Full-text search with Django RestAPI
- Assignment **

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Module 6: Versioning and Documentation (Duration: 3 Hours)
- API versioning best practices
- Generating API documentation
- Using tools like Swagger or Redoc
- Assignment **

Module 7: Testing and Debugging (Duration: 4 Hours)
- Writing unit tests for APIs
- Debugging common API issues
- Using tools like Django Debug Toolbar
- Assignment **

Module 8: File Uploads and Media Handling (Duration: 3 Hours)
- Handling file uploads in Django RestAPI
- Serving media files in development vs. production
- Amazon S3 and other cloud storage options
- Assignment **

Module 9: Advanced Topics (Duration: 6 Hours)
- WebSockets and real-time updates with Django Channels
- Caching strategies for APIs
- Implementing geospatial APIs
- Integrating with third-party services
- Assignment **

Module 10: Deployment and Scalability (Duration: 5 Hours)
- Preparing for production deployment
- Choosing the right hosting environment (e.g., AWS, Heroku)
- Load balancing and scaling strategies
- Monitoring and performance optimization
- Assignment **

Module 11: Best Practices and Security (Duration: 4 Hours)
- Code organization and project structure
- Security best practices for APIs
- Handling sensitive data and encryption
- Continuous integration and deployment (CI/CD) for APIs
- Assignment **

Module 12: Building a Real-world Project (Duration: 4 Hours)
- Designing the API for a specific application
- Implementing features based on real-world requirements
- Testing and debugging the project
- Deployment and finalizing the project

Final Projects Submission *

To Enroll in the Course:

Contact: +8801704265972 (Call/WhatsApp)

Sohan Khan, Course Coordinator at aiQuest Intelligence

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