**Project Name: Djangonics**

Project Description: Djangonics is a full-stack e-commerce web application where people can buy and sell electronics. It allows users to browse, search, and purchase products. The application will be deployed on IBM Cloud Lite account and will utilize various IBM Cloud services, including Watson.

**Functional Requirements:**

1. User Registration and Login - Allow users to create an account, login, and logout securely.
2. Product Catalogue - Users can view the products available for purchase with descriptions, prices, images, and reviews.
3. Product Search and Filtering - Users can search for products by name, category, and price range.
4. Product Details - Users can view detailed information about a product, including reviews, related products, and recommended products using Watson.
5. Shopping Cart - Users can add products to a shopping cart, remove products, and update quantities.
6. Checkout - Users can checkout their cart and make payment using a payment gateway.
7. Order Tracking - Users can view their order history and track their orders.
8. User Dashboard - Allow users to manage their profile, change their password, view their orders, and track their shipments.

**Non-Functional Requirements:**

1. Responsive UI - The application must be responsive and optimized for various screen sizes.
2. Security - The application must use secure authentication and authorization mechanisms, protect user data, and prevent attacks like SQL Injection.
3. Performance - The application must have fast load times, minimize server round-trips, and handle a large number of users.
4. Scalability - The application should be scalable to handle increased traffic and data volume.
5. Availability - The application should be available 24x7 with minimal downtime.

**Technology Stack:**

1. Frontend - Angular 12 or React 17, Bootstrap 5, HTML5, CSS3.
2. Backend - Node.js, Express.js, and MongoDB or MySQL or PostgreSQL.
3. IBM Cloud Services - Watson Studio, Watson Natural Language Understanding, Watson Discovery, IBM Cloud Functions, IBM Cloud Object Storage.

Project Timeline: This project is expected to take approximately 3 months to complete, with regular progress updates and milestones.

Additional Ideas:  
**Project Idea:** A microservices-based e-commerce platform.

**Description:** You can build a microservices-based e-commerce platform that consists of multiple services such as product catalog service, order management service, payment service, etc. Each of these services can be built using Django and then deployed on IBM Cloud. Finally, you can use IBM API Connect to manage the APIs exposed by these services and provide a user-friendly interface for users to interact with.

**Features:**

* Microservices architecture that allows for scalability and flexibility
* Multiple services such as product catalog service, order management service, payment service, etc.
* User-friendly interface for users to interact with
* IBM API Connect to manage the APIs exposed by these services

**Benefits:**

* Scalability and flexibility due to microservices architecture
* Ability to build and deploy whatever you want, whenever you want and as much as you want
* Easier implementation of new features and capabilities even during massive growth phases
* Real-time data processing and analysis

**Value Proposition:**

* A microservices-based e-commerce platform that is scalable, flexible and easy to use
* Provides real-time data processing and analysis
* Can be used by businesses to sell their products online

**Technologies/Tech Stack Required:**

* Django for building each of the services
* IBM Cloud for deployment
* IBM API Connect for managing the APIs exposed by these services

**Front-end Technologies:**

* HTML
* CSS
* JavaScript
* React.js

**Back-end Technologies:**

* Node.js
* Express.js
* MongoDB

**APIs:**

* Stripe API for payment processing
* Google Maps API for location-based services