

# Rest API Development Checklist

Certainly! Here is a version formatted for Confluence:

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## Design:

### 1. Analysis and Design Diagrams:

- Overview diagram featuring API-led architecture.
- Low-level diagram.

### 2. Approval:

- Obtain approval from the Team Lead to proceed.

## Specification:

### • RAML Creation:

- Develop RAML using Fragments.

### • RAML Review:

- Review RAML specifications.

### • Publish in Exchange:

- Share RAML in the exchange platform.

## Build:

### • Repository and Branch Creation:

- Establish repository and branches.

### • Standards:

- Ensure adherence to:
  - i. Proper naming conventions (from application to flows, components, and connectors).
  - ii. Properties management.
  - iii. Secure handling of properties.
  - iv. Structured folder organization.
  - v. Code reusability.
  - vi. Mechanisms for retrying operations.
  - vii. Setting response timeouts.
  - viii. Externalization of hardcoded values.

### • Business Functionality:

- Implement core business logic.

### • Logging:

- Configure logging mechanisms.

### • Error Handling:

- Implement error management strategies.

### • Alerts:

- Set up alerting mechanisms.

## Testing:

### • Unit Testing:

- Conduct unit tests.

- **MUnit:**

- Perform MUnit testing.

- **Postman Collection:**

- Develop and maintain Postman collections.

**Security:**

- **API Policy:**

- Enforce policies such as client ID enforcement, JSON threat policies, rate limiting, SLA enforcement, IP whitelisting, and IP blocking.

**Deployment:**

- **Application Deployment:**

- Deploy applications as per requirements.

**Monitoring:**

- **Log Monitoring:**

- Implement log monitoring for operational insights.

**Documentation:**

- **Documentation:**

- Prepare comprehensive documentation.
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