



وزارة التعليم العالي و البحث العلمي , العراق  
جامعة بابل  
كلية تكنولوجيا المعلومات  
قسم شبكات المعلومات  
الدراسة صباحي



الاستفادة من واجهات برمجة تطبيقات ويب نقل الحالة  
التمثيلية: استراتيجيات التوثيق الفعالة للمطورين  
**Leveraging RESTful Web APIs: Effective  
Documentation Strategies for Developers**

قدمت هذه الأطروحة إلى قسم شبكات المعلومات في كلية تكنولوجيا المعلومات جامعة بابل استكمالاً  
لمتطلبات درجة البكالوريوس في علم شبكات المعلومات للأكاديميين.

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## **Abstract**

In this API documentation project, we implemented a PHP-based system for documenting an API while experimenting with posts, covering endpoints for creating, reading, updating, and deleting posts.

Using a MySQL database, the API stores post information like titles, descriptions, and creation dates. Users can create new posts by submitting data via HTTP POST requests, including parameters for title and description. Upon validation, the system inserts the new post into the database. To retrieve posts, users can access the endpoint, which returns JSON-formatted data containing post details such as ID, category name, title, description, and creation date. The endpoint fetches a specific post based on the provided post ID. Users specify the ID as a query parameter, and the system returns the corresponding post details in JSON format. For updating posts, users provide the post ID along with updated title and description parameters. After validating the input data, the system performs the update operation in the database. To ensure data integrity, the API handles error reporting and displays relevant error messages for exceptions or invalid requests. It also implements CORS headers for cross-origin resource sharing and sets content-type headers for consistent data formatting. This API documentation provides a comprehensive guide for utilizing the PHP-based system to manage posts, facilitating seamless integration and interaction with the underlying database, so that users of the API can have a through outline about the API and its functionalities.