



## Cover page

Project title: Quantity..... Academic Year: 2024-2025.....

Group Members: Amr Kurdi..... Department Name: Computer Engineering

Deema Saleh.....

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Project Type **Software** or Hardware (Choose one)

Supervisor Name: Dr.Muhannad Al-jabi .....

### Format:

- Single space, Times New Roman.
- 12 pt,
- Maximum 1 page.

### Abstract Body:

#### Items must be provided in the Abstract:

- Why do you think this project is important? Please explain the significance of this Project in brief.
- In your point of view what are the important aspects that should be covered in the project?
- Objective(s): In your view, please explain the main objectives of the project.
- Methodology: Give a brief outline of the application development process.
- Had this project been done before? Are there any similar applications available today?
- **Note:** Please deliver this abstract early to ensure that your Project has been approved by the department's projects committee. **Registration will not be done without this approval.**



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## Project's Abstract:

Quantity, represents a Java-based framework that was created for making the work of application development easier by creating the backend, frontend, and database. Quantity spares the work of having the developer define only one class per entity with the field types, their validation rules, and behaviors it is to have. Such a definition creates the database schema and the frontend elements, which are seamlessly integrated.

Quantity supports building applications for iOS, Android, Linux, Mac, and Windows, extending the reach of applications to a number of platforms with least additional effort. This flexibility of cross-platform offers developers a chance to deploy applications across different environments, serving a large group of user needs on both desktop and mobile.

In this framework, communications are encapsulated between the front-end and back-end, input validation is performed on both the front-end and back-end sides, and tasks are efficiently executed by pagination and sorting directly from the database.

Quantity improves its search functionality through its Lucene-based search engine.

Being multilingual implemented, it allows for easy localization, in such a way that to make the applications support multiple languages, it only provides the localized resources.

The most important point of our project is the fully featured website and mobile app builder developed with Quantity. With it, one will be able to create full-featured responsive websites and mobile applications using Quantity, while showing how fast this framework is in developing full-stack applications that easily switch between web and mobile with a minimum amount of code.