



## Cover page

Project title: Coffee Cruch      Academic Year...2024.....

Group Members: .....Mrawa Abusaa...      Department Name: ...computer engineer

..... Ruba Qawareeq .....

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

Supervisor Name: ...Ashraf Armoush .....

### 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?
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- **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:**

Most people need to drink coffee daily to start their activities energetically, so they buy a lot of ground coffee to boil it and drink it, so in our project we decided to design a machine to grind coffee and prepare it with the appropriate mixture and quantity based on the user's request in an effective and fast way.

The project objectives are to build the machine from scratch, starting from grinding the coffee beans to mixing them with other components specified by the user in the appropriate quantity to obtain the fresh mixture as desired by the user, then filling and sealing it quickly and effectively. The machine is designed by using Arduino and connect it to a group of sensors that will manage the various operations of the machine, including the grinding method, and sensing the weight as an indicator that it is correct.

The machine will also carefully check all the steps. The quantity of coffee and other components must be checked if it is sufficient to prepare the user's order. If there is a shortage, the process will not be completed or done. The machine lowers the box automatically and constantly checks its appropriate position to avoid any mistake. The size of the box is one, it holds 50 grams or 100 grams. Finally, the machine provides the process of packaging the box well By lowering the box lid and pressing it.

