



## Cover page

Project title: ...Cupcakes Symphony (The Decorator's Delight) Academic Year:...2023-2024

Group Members: .....Sama Ahed Fadda..... Department Name: ...Computer engineering.....

.....Sara Mufed Mahmoud.....

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**Project Type : Hardware**

Supervisor Name: .....Dr.Luai Malhis.....

### 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.**



## Project's Abstract:

The Cupcakes Symphony project is an Automated Cupcake Decoration Line intends to transform the confectionery industry by giving customers a streamlined and engaging experience to customize and embellish their cupcakes. Along with giving customers a fun and original method to customize their cupcakes, it also offers a scalable revenue strategy for bakers and confectionery stores.

With automation, the system significantly reduces decorating time, making it suitable for both personal use and commercial applications, it also makes sure that quality control is maintained throughout the decorating process while upholding high standards of hygiene and presentation.

This line consists of several stages which are the decoration items such as frosting, sprinkles, etc., the customers have the freedom to choose whatever they want from these items either by using the keypad or the mobile application. The last stage is the packaging stage.

This idea exists in factories but there are no machines in small stores that do this task, they do that manually and this is time-wasting and there is no guarantee of cleanliness and quality.