

MWC3 '25 Web Application with Django Problem Statement

As you have been progressing through your education, you have been getting involved in more and more activities. Time management has been an issue, and the current To-Do apps do not do exactly what you want. Fortunately, you know how to develop your own web page using Django to create your own To-Do app! You also would like to develop an app for your portfolio to showcase your Django skills.

Your task in this competition is to develop a To-Do app that will meet the following specifications:

1. The folder containing all your Django project with source code, web templates, etc. must be named `to_do_app`
2. There should be a page to view the To-Do items, and also create new items
3. There should be a way to Delete items
4. When creating a new item, another page should appear for creating the item. Each item should contain the following form fields:
 - a. Item name (required to contain data)
 - b. Description (optional)
 - c. Start Date (optional)
 - d. Start Time (optional)
 - e. End Date (optional)
 - f. End Time (optional)
5. When deleting an item, a confirmation page should appear asking to confirm the item deletion
6. Bonus! Modify the web pages to make them look aesthetically pleasing. Assuming multiple teams finish the above

Deliverables

You are required to submit the following documents:

1. Your Django project (zip the entire `to_do_app` folder containing your source code for submission). Follow the instructions above for the naming conventions of the folders.
2. Screen captures of your web pages running from your code, at least 1 per page.

MWC3 '25 Web Application with Django Grading Rubric

<i>Item</i>	<i>Excellent</i>	<i>Proficient</i>	<i>Functional</i>	<i>Needs Improvement</i>	<i>Possible Points</i>
Code Quality and Functionality	15: The code is clean, well-documented, and follows best practices. Functions are modular, and the app runs smoothly with no bugs.	10: The code is functional but may have minor issues such as redundant code or small bugs.	5: The code works but has significant issues (e.g., lack of documentation, hard-to-read code, or errors).	0: The code has major bugs or is difficult to understand and maintain.	15
Project Organization and Structure	10: The project folder is correctly named to_do_app, and the structure is organized, with separate folders for the source code, templates, and other assets.	8: The project folder is mostly organized, but there are minor issues with folder naming or structure.	5: The project structure is disorganized or contains significant errors.	0: No folder structure or disorganized to a degree that affects the app's functionality.	10
To-Do Items Viewing and Creation	20: There is a page that displays the list of To-Do	15: There is a page to view and create To-Do	10: The To-Do items display and creation page exists	0: No page exists to view or create To-Do items.	20

	items and allows users to create new items. The interface is functional and user-friendly.	items, but there are minor usability issues or bugs.	but has major issues (e.g., errors in item display or creation).		
Item Deletion	15: The app includes a delete feature, and when an item is deleted, a confirmation page appears asking the user to confirm deletion.	10: Deletion works, but the confirmation page is missing or doesn't function properly.	5: The deletion feature exists but does not work or does not prompt for confirmation.	0: No deletion feature exists.	15
Form Fields for New Item Creation	20: The item creation page has all the required form fields: Item name (required), Description (optional), Start Date (optional), Start Time (optional), End Date (optional), and End Time (optional). Proper	15: Most required fields are present, but some may be missing or incorrectly implemented.	10: Several fields are missing or not functioning correctly (e.g., incorrect validation).	0: Missing or incomplete form for item creation.	20

	validation is applied for the required fields.				
Confirmation Page for Deletion	10: The confirmation page works as expected, asking the user to confirm the deletion of the item before it is removed from the list.	7: The confirmation page exists but has minor usability issues or bugs.	5: The confirmation page is either missing or broken.	0: No confirmation page is provided.	10
Aesthetic and User Interface (BONUS)	10: The web pages are well-designed, visually appealing, and easy to navigate. The app uses good UI/UX principles, such as clear layout, consistent styling, and attention to detail.	7: The app has a functional interface but lacks some attention to aesthetics (e.g., inconsistent design or hard-to-use interface).	5: The interface is basic or cluttered, with little regard for user experience.	0: No improvements were made to the basic html form	10