



## Zyfera Junior Dev Assignment

### Story

As part of the school council, we are seeking to develop a REST API to manage and store student data in a database. This includes names, student numbers, and their corresponding grades by course code. When multiple entries exist for a single course, the API should calculate and store the average grade for that course.

### Example Input JSON:

```
{
  "name": "Ali",
  "surname": "Yilmaz",
  "stdNumber": "B012X00012",
  "grades": [
    {
      "code": "MT101",
      "value": 90
    }, {
      "code": "PH101",
      "value": 75
    }, {
      "code": "CH101",
      "value": 60
    }, {
      "code": "MT101",
      "value": 70
    }, {
      "code": "HS101",
      "value": 65
    }
  ]
}
```



## Acceptance Criteria

- The solution should be a web application with REST API in a preferred programming language.
- The solution should provide only 1 REST endpoint for the “create” operation.
- The solution should use a database of your choice.
- The solution should contain descriptive documentation
- The solution should follow the software engineering best practices, SDLC, and API guidelines.
- The solution should be provided as a public GitHub repository with a proper Git commit history.
- Ensure the application is robust against invalid input, as the end-users are not software developers.

## Time and Delivery Expectations

- This task is categorized as small (S-size) and **should not exceed** 3 hours of work.
- Please deliver your solution **within 5 working days**.

## Out of Scope

The following items should be excluded:

- REST API should be a public API and no security restrictions should be applied.
- Do not develop a frontend interface.
- Reading, updating, listing, deleting functionalities should not be provided.

## Next Steps

Upon submission, we will promptly review your solution. If it meets our criteria, you will be invited to a 1-hour online interview session to discuss:

- Your submitted solution
- A straightforward live coding challenge
- An assessment of your technical and soft skills

## Contact Information

**Note:** If you encounter any issues or have questions regarding the assignment, please don't hesitate to reach out us at [contact@zyfera.com](mailto:contact@zyfera.com)

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