

Review for NullReference

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1. Requirements

1.1. Functional requirements

- Upload a text file with grades.
- Convert grades.
- Download.
- Responsive design (can be used on different devices)
- [1.2. Non-Functional requirements](#)
- Availability: 99% uptime.
- Security: System protects itself (by only allowing specific file-types to be uploaded and downloaded.)
- Performance: response time should be less than 1 sec. Upload and download
- Cost: Cost should be kept to a minimum. Use free or open source tools and services.
- Testability: it can be tested thoroughly. Unit testing, user testing, performance testing.
- Scalability: The program can be horizontally scaled through Azure app service.
- Usability: Should be intuitive, UI is kept simple and easy to use. Limited documentation is needed for use.
- [2. User Stories](#)
- [2.1. User story 1](#)
- As a user, i want to upload my danish grades, so that i can convert my grades to ECTS points. Acceptance criteria: File is uploaded to the server successfully and is in correct format (.txt).

Note: Acceptance criteria needs to be more detailed.

- [2.2. User story 2](#)
- As a user, i want to see the status of the uploading/conversion on the screen, so that i know if it is successfully uploaded/converted or an error is present.

Acceptance criteria: A clear message about the status is shown on the screen, based on if the file is in correct format and syntax (EOL, EOF and so on...). The status should be either success or error.

2.3. User story 3

As a user, I want to download my converted grades, so that I can save them locally.

Acceptance criteria: File is successfully downloaded from the server in correct format (.txt) and in correct ECTS standards.

3. Use Cases

3.1. Use Case 1: Upload Danish grades

Primary Actor: User (*User of the system*)

Secondary Actors: *System (the grade conversion tool)*, *Device (user's device consuming the System)* Scope: System

Level: *User goal*

Brief:

The user uploads his file containing Danish grades for ECTS conversion

Postconditions

Minimal Guarantees:

Preconditions:

Triggers:

The user invokes an upload request.

Basic flow:

Extensions:

- The status of the uploading is shown on the screen, whether it is a success or not.

Internet connected, browser opened, System is running on User's Device, user has a valid text

file with Danish grades

1. The System provides an option for the User to upload the file
2. The User selects the option to upload.
3. The Device shows User's files to browse from.
4. User selects file from Device to upload
5. The System processes the file
6. The System shows the status of the process

3.a. Cancel file selection:

1. Go back to step 1.

5.a. Timeout:

1. The System times out
2. Go back to step 1.

3.2. Use Case 2: Download ECTS grades

Primary Actor: User (*User of the system*)

Secondary Actors: *System (the grade conversion tool), Device (user's device consuming the System)* Scope: System

Level: *User goal*

Brief:

The user downloads his file containing ECTS grades after Danish grades conversion process

Postconditions

Minimal Guarantees:

- The status of the conversion is shown on the screen, whether it is a success or not.

Preconditions:

Triggers:

The user invokes a download request.

Basic flow:

Internet connected, browser opened, System is running on User's Device, user has a valid text

file with Danish grades, file successfully uploaded for conversion.

1. The System provides an option for the User to download the file
2. The User selects the option to download.
3. The Device shows User's location to save the file to.
4. User selects path from Device to download to.
5. The System transfers the file to User's Device.
6. The System shows the status of the process.

Extensions:

3.a. Automatic path selection:

1. Skip to step 5. 5.a. Timeout:

1. The System times out
2. Go back to step 1.

Review Conclusion:

We could easily understand the functional and nonfunctional requirements.

However, we were a bit sceptical about the first User story - acceptance test which we recommended to describe it more detailed. Or break it down into 2 User Stories.