Linnæus University
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Requirements Document

Requirements Document
Spotify

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Table of contents

Appendix

Spotify is a music streaming service that allows you to listen to music online. It allows you access to its extensive online library of music and podcasts, letting you to listen to whatever content you want, whenever you want.

1. Identify stakeholders

- End-users
- Musicians
- Producers
- Podcasters
- Platforms
- Managers and other employees working in the company.
- Advertising companies
- Developers and testers

2. Functional and Non-functional Requirements

2.1. Functional requirements

1. A user should be able to register by filling the sign-up form.

2. A member should be able to log-in using a valid username and password.

3. The administrator control page should be able to add, remove and modify songs and artists.

2.2. Non-functional requirements

1. A security system should lock an account after 5 failed login attempts.

2. The application should be able to function properly on multiple devices.
3. The system should not have more than 1 percentage of failure.

3. Faceted Approach

	FR1	FR2	FR3	NFR1	NFR2	NFR3
System	Yes	Yes	Yes	Yes	Yes	Yes
User interface	Yes	Yes	Yes	Yes	Yes	No
Database	Yes	Yes	Yes	Yes	No	Yes
Communications	No	No	No	No	Yes	No

Table 1

4. Systematic 'checklist-based' requirements analysis

	FR1	FR2	FR3	NFR1	NFR2	NFR3
Premature design	Yes	Yes	Yes	Yes	Yes	Yes
Combined requirements	No	No	No	No	No	No
Unnecessary requirements	No	No	No	No	No	No
Use of non-standard hardware	No	No	No	No	No	No
Conformance with business goals	Yes	Yes	Yes	Yes	Yes	Yes
Requirements ambiguity	No	No	No	No	No	No
Requirements realism	Yes	Yes	Yes	Yes	Yes	Yes
Requirements testability	Yes	Yes	Yes	Yes	Yes	Yes

Table 2

5. Systematic risk assessment for the requirements

	FR1	FR2	FR3	NFR 1	NFR2	NFR 3
Performance risks	Low	Low	Medium	Low	Medium	Low
Safety and security risks	Medium	Medium	Low	Low	Medium	Low
Process risks	Low	Low	Low	Low	Low	Low
Implementation technology risks	Low	Low	Low	Low	Low	Low
Database risks	Low	Low	Medium	Low	Low	Low
Schedule risks	Low	Low	Medium	Low	Low	Low
External risks	Low	Low	Low	Low	Low	Low
Stability risks	Low	Low	Low	Low	Low	Low

Table 3

<u>Overall</u>

Functional Requirement 1 - On the average, it has a low risk.

Functional Requirement 2 - On the average, it has a low risk.

Functional Requirement 3 - On the average, it has a low risk.

Non-Functional Requirement 1 - On the average, it has a low risk.

Non-Functional Requirement 2 - On the average, it has a low risk.

Non-Functional Requirement 3 - On the average, it has a low risk.

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6. Systematic validation of the requirements

Are the requirements complete?	Yes
Are the requirements consistent?	Yes
Are the requirements comprehensible?	Yes
Are the requirements ambiguous?	No
Is the requirements document structured?	Yes
Are the requirements traceable?	Yes
Does the requirements document as a whole, or do the individual requirements conform to defined standards?	Yes

Table 4

7. Test cases

7.1. **Test case 1**
Functional Requirement 1

- Checks whether a new user has been successfully registered.

7.2. **Test case 2**
Functional Requirement 2

- Checks whether a member can login successfully with a valid username and password.

7.3. **Test case 3**
Functional Requirement 3

- Checks if the admin page works properly. If it can add, remove and modify

7.4. **Test case 4**
Non-Functional Requirement 1

- Checks whether the system locks after a user tries five login attempts.

7.5. **Test case 5**
Non-Functional Requirement 2

- Checks whether a member can log-in using different devices.

7.6. **Test case 6**
Non-Functional Requirement 3

- Checks whether the system does not have more than 1 percentage of failure.

8. UML Class Diagram

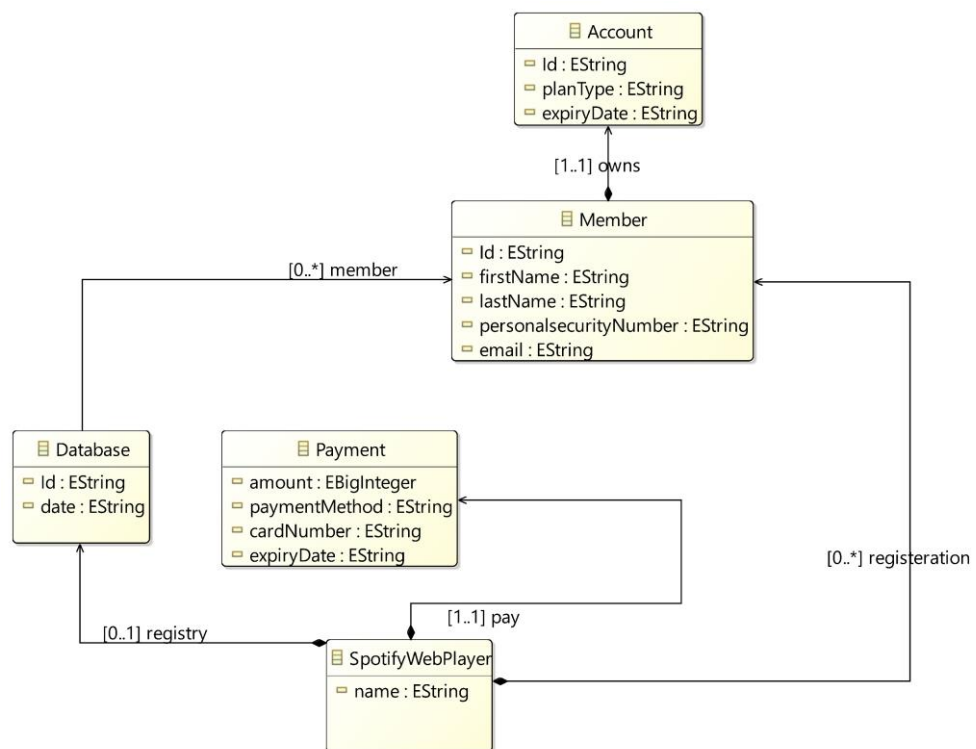Functional requirement 1: Registration of a member

Figure 1