

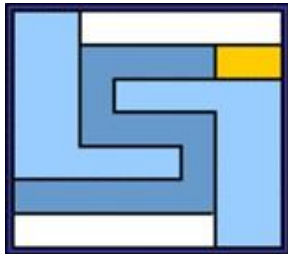


Continuous Evaluation Project

Introduction to Software Engineering and Information Systems I

Deliverable E1

2021-2022



Escuela Técnica Superior de
Ingeniería Informática

October 2021

Version 1.0

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1 Introduction

With the recent introduction of streaming services, people are consuming more media than ever. It is now common to watch not one, but several TV series and movies per week and at the same time. An efficient way of keeping track of all the media that someone wants to consume has not been, however, invented yet.

Most people just keep a list in their preferred notes application, and there are a few services (namely: Letterboxd, IMDB, Goodreads) that implement *some* of this tracking functionality. However, these services are fragmented, discriminant on media type and too different from each other to be used efficiently in conjunction. We propose a solution to this problem: a centralized media tracking application, available in every device and where any kind of media can be registered. Keeping track of everything will be easy and effortless, so you just have to worry about what to watch next.

The name is “harmony,” following this philosophy of centralization and ease of use. It is meant as a medium for a more efficient and enjoyable consumption of media. And it brings every type of media together, so you don’t have to worry about keeping track of different services that offer different functionalities for different things. It will also be able to keep track of the media the user has already consumed, letting them gain insight from it, as well as rating and reviewing each piece of media individually, choosing their favorites and sharing all this information with the world.

2 Glossary of Terms

Term	Description
Anime	<p>3. An animated work originated in Japan, regardless of the artistic style.</p> <p>The American Heritage Dictionary of the English Language, 5th Edition.</p> <p>A special type of Series</p>
Book	<p>3. A printed or written literary work.</p> <p>The American Heritage Dictionary of the English Language, 5th Edition.</p>
Collection	An ordered set of Books, normally written by the same author and with argument continuity
Episode	<p>3. A separate part of a [...] television series</p> <p>The American Heritage Dictionary of the English Language, 5th Edition.</p>
Follower	A user that has decided to receive updates on another user's recent updates.
Friend	A person that follows you, and that you follow. You are mutual followers.
List	An ordered collection of media elements
Media	Any kind of consumer media, inducing but not limited to movies, TV series, books, videogames, music...
Movie	<p>1. A recorded sequence of film or video images displayed on a screen with sufficient rapidity as to create the illusion of motion and continuity.</p> <p>2. Any work, as of art or entertainment, having this form, usually including a soundtrack.</p> <p><i>The American Heritage Dictionary of the English Language, 5th Edition.</i></p> <p>Furthermore, it is composed of one single unit, as opposed to many segments.</p>
Platform	Means to consume media, be it physical or digital.
Report	An user submitted ticket about a review, warning the moderators about inappropriate content.

Review	A text written by an user to express their opinion and/or feelings on a given piece of media. Can be score only or include a more detailed text review.
Score	A numerical value assigned to a piece of media based on the subjective opinion of a person
Season	Segments in which a Series is divided, normally composed of multiple Episodes
Series	<p>8. A succession of regularly broadcast television programs, especially the set of episodes of a drama or sitcom.</p> <p>The American Heritage Dictionary of the English Language, 5th Edition.</p> <p>Composed of multiple segments, called Seasons, that contain multiple segments called Episodes</p>
Streaming service	Widely available platforms used for the immediate viewing of an extensive catalogue of media, normally for a monthly subscription
Videogame	<p>A type of game existing as and controlled by software, usually run by a video game console or a computer and played on a video terminal or television screen. Controlled by a paddle, joystick, joypad, mouse, keyboard, or a combination of any of these input devices.</p> <p>Wiktionary, Creative Commons Attribution/Share-Alike License.</p>

3 Catalogue of requirements

3.1 Objectives

OBJ-001 Tracking.

As User,

I can keep track of the media I want to consume, am consuming and have consumed

OBJ-002 Information and ease of access.

As User,

I can get information on all types of media, both static (e.g., synopsis) and based on events (e.g., new release notifications) in an easy and effortless way.

OBJ-003 Moderation.

As moderator,

I can make sure content in harmony (both information provided by the platform and generated by the users) remains appropriate, accurate and on topic, and correct and/or delete content that is not.

3.2 System users

USR-001 User.

Normal user of *harmony*.

USR-002 Administrator.

People with special privileges to modify add or delete information in *harmony*.

USR-003 Developer.

The people behind *harmony*, tasked with creating new features and polishing the platform.

3.3 Information requirements

IR-001 Normal User

As an User

I can have a profile in *harmony*

With the following data:

- User ID
- Normal ID
- Username
- Email
- Password
- Account creation date

IR-002 Admin

As an admin

I can have a profile in *harmony*

With the following data:

- User ID
- Admin ID
- Username
- Email
- Password
- Account creation date

IR-003 Media

As media

I have the following data:

- Media ID
- Cover image
- Background image
- Synopsis
- Rating
- Release date
- Genre

IR-004 Tracker

As a tracker

I can keep track of an user's media consumption.

I have the following data:

- Tracker ID
- State

- Date
- User ID
- Media ID

IR-005 Review

As a review

I can show an user's opinion on a piece of media

I have the following data:

- Review ID
- Review text
- Rating
- Likes
- Creation date
- User ID
- Media ID

IR-005 List

As a list

I can help an user organize media

I have the following data:

- List ID
- List name
- Creation date
- Last modification date
- User ID
- A number of Media IDs

IR-006 Report

As a report

I can keep harmony a safe place by removing harmful content in reviews.

I have the following data:

- Report ID
- Reason to report
- Review ID
- Reporter ID

IR-007 Videogame

As a videogame

I have the following data:

- Videogame ID
- Name
- Company
- Platform(s) ID
- Media ID

IR-008 Book

As a book

I have the following data:

- Book ID
- Name
- Collection
- Media ID

IR-009 Series

As a series

I have the following data:

- Series ID
- Series Name
- Media ID
- Number of seasons. For each season:
 - Season ID
 - Season number
- Number of episodes. For each episode:
 - Episode ID
 - Episode title
 - Episode number

IR-010 Movie

As a movie

I have the following data:

- Movie ID
- Name

IR-011 Person in Movie

As a person working in a movie

I have the following data:

- Role
- Role type
- Movie ID
- Person ID

IR-012 Person in Episode

As a person working in a series' episode

I have the following data:

- Role
- Role type
- Episode ID
- Person ID

IR-013 Person in Book

As a person working in a book

I have the following data:

- Role
- Book ID
- Person ID

IR-014 Person in Videogame

As a person working in a videogame

I have the following data:

- Role
- Role type
- Videogame ID
- Person ID

IR-015 Person

As a person working in media

I have the following data:

- Person ID
- Name
- Birth date
- Picture

3.4 Functional requirements

FR-001 User Lists Creation (R1)

As an User

I can create lists of media

So that I can organize what I want to watch, what I am watching and what I want to watch, as well as grouping media in any way I want.

FR-002 User Lists Modification (R1)

As an User

I can modify lists of media

So that I can organize what I want to watch, what I am watching and what I want to watch, as well as grouping media in any way I want.

FR-003 User Lists Deletion (R1)

As an User

I can delete lists of media

So that I can organize what I want to watch, what I am watching and what I want to watch, as well as grouping media in any way I want.

FR-004 User Media Progress (R1)

As an User

I can see my state for each piece of media and the history of interactions with it

So that I know where I am in each, which ones I have left without finishing and when I have watched each of them

FR-005 Media Search (R1)

As an User

I can search for media fast and easily, be it by title, director/author, type of media, year, etc...

So that I can add it on the fly

FR-006 Media Display (R1)

As an User

I can see a list of media items in the main page

So that I can choose something to watch quickly

FR-007 Following other users (R1)

As an User

I can follow other people

So that I can see their reviews and valorations prefently

FR-008 Unfollowing other users (R1)

As an User

I can unfollow other people

So that I can stop seeing what they produce

FR-009 Rating (R2)

As an User

I can rate each piece of media individually from 0 to 10, write a text review and modify it

So that I can share my opinions on a piece of media with my friends

FR-010 Rating - Listing (R2)

As an User

I can see the reviews of a piece of media people I follow have written

So that I can see the opinions of people whose criteria I'm interested with

FR-011 Rating - Listing (2) (R2)

As an User

I can see everyone's ratings and reviews.

So that I can see everyone's opinion on a piece of media

FR-012 Review-Rating (R2)

As an User

I can rate someone's review

So that the most useful reviews can be shown first for others to see

FR-013 User Media Tracking (R1)

As an User

I can click a button of my choice in a piece of media's page to add it to my default lists ("to watch", "watching", "following" or "watched") or to any of my other lists.

FR-014 Random Media Selection (R2)

As an User

I can have a button labelled "Random" that will give me a random piece of media from my lists to watch when I am undecided

FR-015 Reporting (R2)

As an User

I can report other users' reviews for infringing

FR-016 Administrator roles

As an Admin

I can moderate users reviews and media items information

So that the platform is safe to use and does not have wrong information about media

3.5 Business rules

BR-001 Usernames (R1)

As Harmony

I can make sure each username is unique

BR-002 Content Control (R2)

As an administrator or moderator

I can make sure that no inappropriate or hateful content is entered in the reviews by reviewing the reported reviews.

So that the platform is safe to use

BR-003 Rating

As an User

I can put a rating between 0 and 5, in 0.25 steps

BR-004 Mail

As an user

I can only register a single Harmony account with my email.

BR-005 Passwords

As an user

I can only set passwords that have a minimum of 8 characters. They must have at least a number, a lowercase letter, an uppercase letter, and a symbol.

BR-006 Review length

As an user

I can write reviews with a maximum character count of 2800

So that the platform isn't flooded with excessively long reviews

3.6 Non-functional requirements

NFR-001 Data Encryption

As an User

I can have my information secure and encrypted

So that no one can access it without my consent

3.7 Interface requirements

INR-001 Responsiveness (R1)

As an User

I can access harmony through different platforms (computer, tablet, phone) and have an adapted and well-designed interface according to each device's screen size

So that I can access *harmony* no matter which device I use

INR-002 Details (R1)

As an User

I can see just enough detail about a piece of media for it to be useful, but not too much that is overwhelming

INR-003 Dark mode (R1)

As an User

I can have the possibility to change between light and dark mode, both manually and automatically

So that I can care for my eyesight

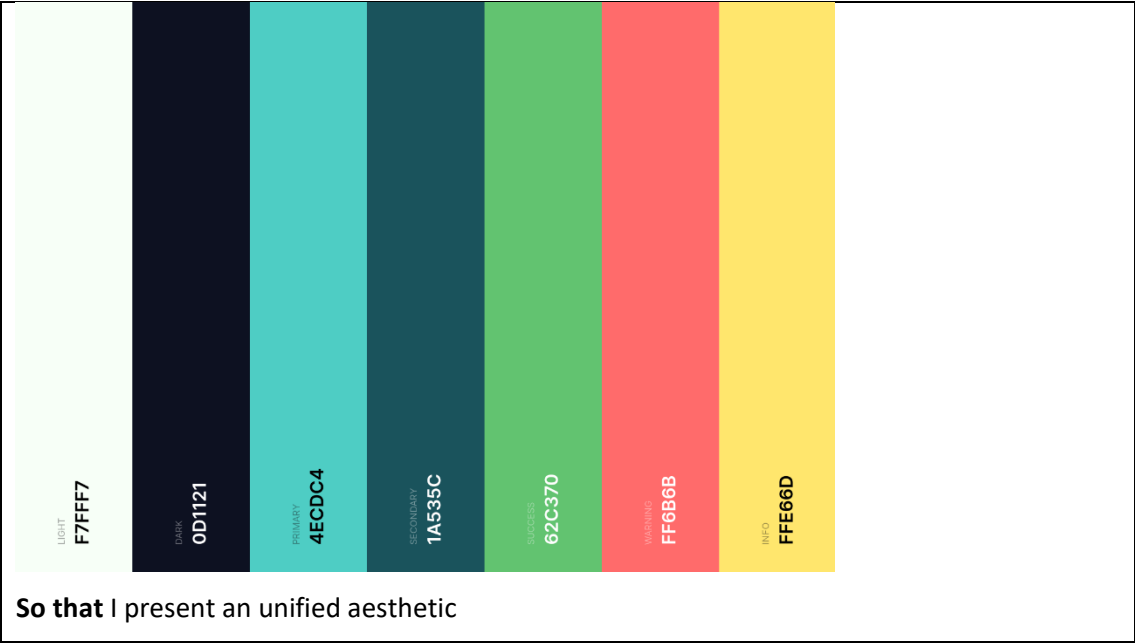
INR-004 Corporate image (R1)

As harmony

I can use the following logos:



And the following colour palette:



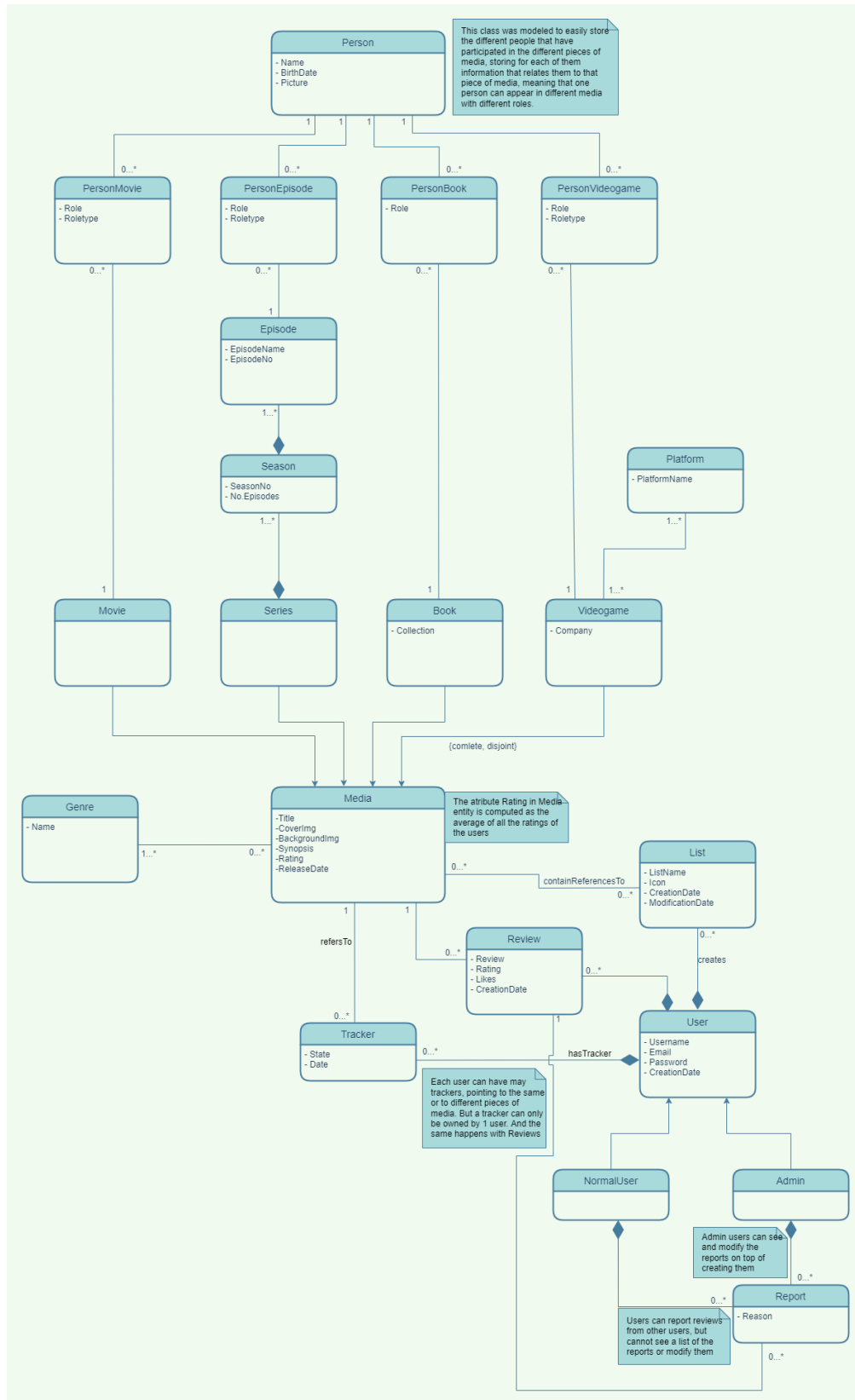
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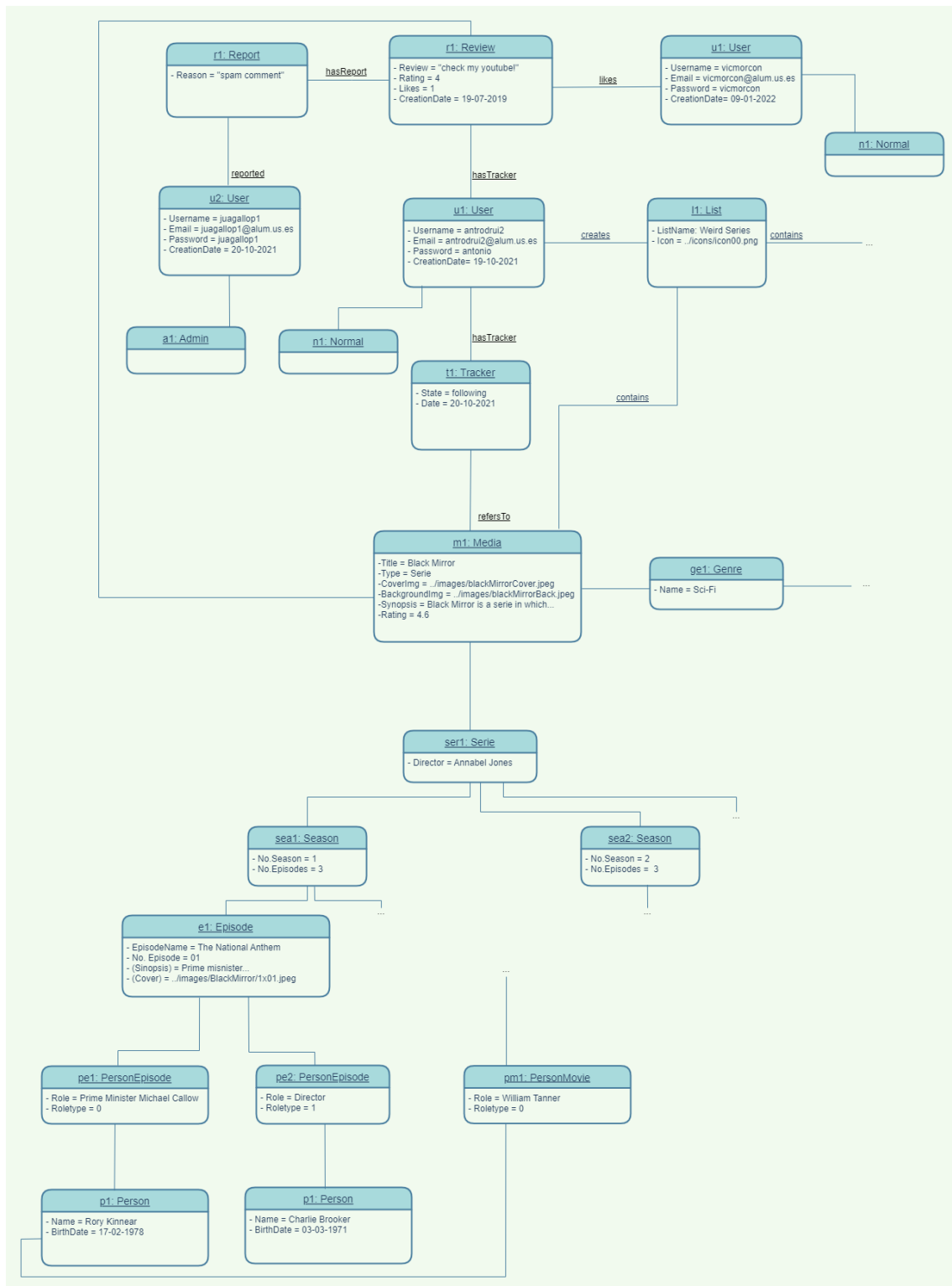


4 Conceptual model

4.1 Class diagram



4.2 Object diagram



4.3 Relational diagram

