CSCI 2040U - Software Design and Analysis
Phase 1 - Planning Documents

Company	TernOps
Members	Matteo De Angelis Geraldo, Ryan Coones, Tomasz Puzio, Erica Patel, Nolan Tsang
Domain	Celebrity Biographies & their Achievements

Project Overview

Project name	TernOps
Purpose & Scope	TernOps is a project created by Matteo De Angelis Geraldo, Ryan Coones, Tomasz Puzio, Erica Patel and Nolan Tsang. The project is a catalogue of celebrity biographies, which will help users understand fame and success while preserving stories that resonate with people. It will capture the lives of influential figures in fields like entertainment, sports, and politics, providing a reliable resource for scholars, journalists, and fans. Celebrities serve as role models, inspiring people and greatly shaping public opinion. A catalogue helps track the influence and relevance of certain figures, providing a deeper understanding of various fields or industries.

Team Agreements & Elicitation Documentation

Roles	Project Manager	Nolan Tsang
	Technical Manager	Tomasz Puzio
	Front-End Lead	Matteo De angelis geraldo
	Back-End Lead	Ryan Coones
	Software Quality Lead	Erica Patel
	Developers	All

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Pipeline	Primary Language	Python
	Repository	GitHub
	Version Control	GitHub
	Project Planning Board	Trello Workspace
	Database Technology	CSV Files

Communication	The group shall use a Discord workspace for communication, with a dedicated channel for daily updates, which must be posted by 11:59 PM. Members are expected to respond to messages within 24 hours.
Meetings	Weekly in-person meetings shall be held during lab sessions to work on assignments, with any extra time used for other outstanding tasks. Additionally, the group shall meet once a week via a scheduled Discord call, with all members present. Smaller virtual meetings will be held weekly for collaborative tasks.
Workflow	Work shall be done together during in-person meetings. Pair programming shall be used whenever any code is being written. Code reviews shall be done by another team member and is required before merging to the main repository. All code must follow a Python Style Guide.
Elicitation Methods	The main elecitiation method used will be brief meetings with the customer to further flesh out any ideas or features required. Alongside this, the team shall use domain research to further learn more about the domain.

Key findings from the elicitation process

Through the elicitation process, the team was able to answer outstanding questions we had, such as what constitutes a celebrity [Anyone famous- singers, artists, atheletes, actors, CEO's], which information should be included in each biography [Image and/ or video of the celebrity, nationality, age, industry, a brief description of them, achievements]. Furthermore, the team did their own research on topics such as the legal and ethical implications of creating a catalogue of biographies, how catalogues of biographies are made, and research and create a list of commonly shared information in biographies for the customer to choose what to include.

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Meeting Notes Summarized

Objective

- Develop a user-friendly GUI-based celebrity biography catalogue that allows users to browse, search, and manage celebrity profiles. The system will support inserting, deleting, editing, and filtering biographies, with a focus on accessibility for both general users and researchers.

Core Features

- Data Management: Users can add, edit, and delete celebrity profiles.
- Search & Filter: Search functionality with filters, including by awards (medium priority).
- Celebrity Profiles: Includes images, a brief description, nationality, achievements, years active, filmography, and teams. Videos may be included.
- User Experience: A GUI-based interface (no terminal/command line), designed to be user-friendly and intuitive.

Additional Features

- Favorites Section: Allows logged-in users to save celebrities (low priority).
- User Access & Contributions: Initially populated by developers, but users can later contribute.
- Admin & User Roles: All users have the same base access, with potential additional features for logged-in users.

Design Considerations

- The application should be accessible to both the general public and researchers.
- Any famous individual can be included, from actors and athletes to CEOs.
- The GUI should be based on an approved model preferred by the client.

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User Stories & Prioritization

User Story	Priority	Estimated Effort	Dependencies
As a user, I want to be able to filter the celebrity profiles by awards won, industry, etc. so that I can specifically find what I want to find instead of browsing aimlessly.	Must Have	4 Hours	Requires the ability to browse & search the catalogue.
As a user, I want to be able to log in, so that I have access to more features of the catalog, like favouriting.	Must Have	2 Hours	No dependencies.
As a user, I want to be able to see image(s) of the celebrity I'm looking for so that I have a better idea of what the celebrity looks like.	Must Have	2 Hours	Requires a GUI to view images.
As a user, I want to be able to see video(s) of the celebrity I'm looking for so that I can hear their voice, and see them in action.	Should Have	4 Hours	Requires a GUI to view video.
As a user, I want to be able to add new celebrities to the database so the database keeps up with growth of industries and emergence of new famous people.	Must Have	2 Hours	Requires a GUI to easily add new celebrities, a database needs to exist to add to.
As a user, I want to be able to delete information if it is irrelevant or incorrect, so the information is kept recent and correct.	Must Have	2 Hours	Requires a GUI to easily delete celebrities, a database needs to exist to delete from.
As a user, I want to be able to edit the existing information on celebrities, so that the biography of the celebrity is accurate and up to date.	Must Have	2 Hours	Requires a GUI to easily edit celebrities, a database needs to exist to edit.

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User Story	Priority	Estimated Effort	Dependencies
As a user, I want to browse celebrities, so that I can find info about celebrities I'm interested in.	Must Have	1 Hour	Requires a GUI to easily browse celebrities, a database needs to exist in order to browse.
As a user, I want to be able to favourite celebrities, so that when their page is updated I can quickly find the page for my favourite celebrities.	Must Have	5 Hours	Requires an account in order to favorite certain celebrities, so all users don't see one user's favorites.
As a user, I want to have a user friendly interface so I can easily interact with the application and see the information on a visually appealing medium.	Must Have	4 Hours	No dependencies.
As a user, I want a homepage so I can see trending celebrities and all of my favourites (if i am logged in)	Nice to Have	3 Hours	Requires accounts to view favorited celebrities.
As a user I want a dedicated button to create an account/log in/sign out so I can log in/out with ease.	Must Have	1 Hour	No dependencies.
As a user, I want to search celebrities by name, so that i can quickly access the info I need for my research.	Must Have	2 Hours	Requires the ability to browse through the catalogue.
As a user, I want the product to have a hierarchal system so that some users have more permissions than others, so the general public can't add misinformation.	Nice to Have	1 Hour	Requires accounts with varying permissions.

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Effort Estimation & Iteration Planning

Effort Estimations Effort Estimations can be found in the table(s) above under column 3, 'Estimated Effort'. Efforts were estimated during a team meeting, and determined using planning poker.

Task Assignments Every member of the team will contribute to every task. Seen as Matteo De angelis geraldo is the front-end lead, he will be leading the development of the front end, and seen as Ryan Coones is the back-end lead, he will be leading the development of the back end. Further breakdown can be found in the table below.

Task	Responsible	Iteration
Creation of database of first 100 celebrity entries.	All.	1
Creation of back-end code that will pull from the database and input the data into the program (not GUI).	Ryan, Tomasz	1
Creation of initial GUI with basic elements.	Matteo, Tomasz	1
Creation of code that will pull data from the database and display it in the GUI.	Matteo	1
Creation of interactive GUI elements such as buttons, text fields, etc.	Matteo	2
Implement system to check string imputed into search bar that contains specific tags (ex. !film, !awards, …) and filter panda dataframe by boolean indexing.	Ryan, Nolan	2
Architecture for account creation.	Ryan, Erica	1
GUI component for signing up, logging in/out.	Matteo, Erica	1
Integrate image file path in database for displaying celebrity images.	Tomasz, Nolan	3
Integrate video file path in database for displaying celebrity videos.	Tomasz, Nolan	3

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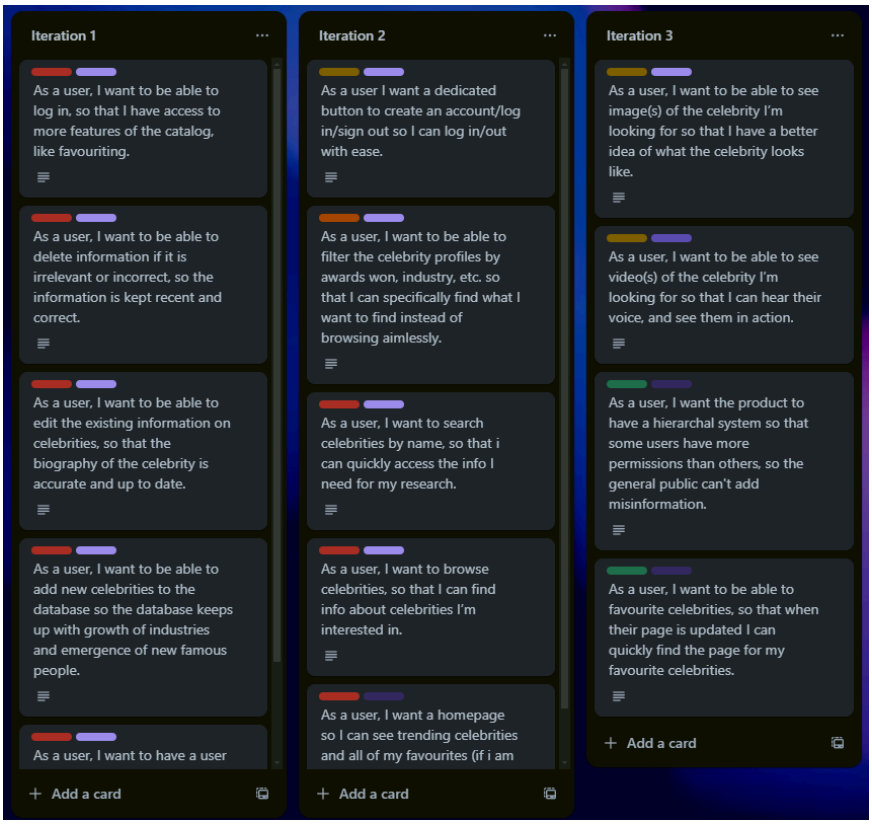
Task	Responsible	Iteration
Implement functionality to add a new celebrity.	Ryan	1
Implement functionality to delete celebrities/info.	Ryan	1
Implement functionality to edit celebrities info.	Ryan	1
Make a function to display a certain selection of celebrities from the database on the screen.	Erica	2
Add functionality for saving celebrities to favourites tab, and showing favourited celebrities.	Erica, Nolan	3
Add Tkinter button in GUI to log in/out or sign up.	Tomasz	1
Add Tkinter input field to GUI that returns the entered string and allows searching through the pandas database.	Tomasz	2
Add a boolean variable to account constructor that determines whether user is admin or not, then add checks (if user.getAdmin()) to functions like editing.	Erica, Nolan	3



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Project Roadmap

Major milestones & deliverables for the next six weeks

- February 28th: Customer Meeting 1
- March 7th: Customer Meeting 2 + First DEMO
- March 14th: Customer Meeting 3
- March 21st: Customer Meeting 4 + Second DEMO
- March 28th: Customer Meeting 5
- April 7th: Customer Meeting 6 + FINAL DEMO

Key risks and potential challenges

Gathering and sorting celebrity data, images, and videos.
- Commercial use of celebrity images.

Next steps and immediate actions following submission

- Iteration 1 tasks
    - Starting on the add/edit/delete functionality.
    - Creating a basic GUI framework.
    - Log in / log out.

- Iteration 2 tasks
    - Browse celebrities.
    - Search bar, to find by name.
    - Filter celebrity profiles by awards, etc.
    - Button for log in/out & sign up.
    - Homepage for seeing trending celebrities.
        - Also when logged in see the favourites list.

- Iteration 3 tasks
    - View image(s) of celebrity.
    - View video(s) of celebrity.
    - Hierarchal system of permission for add, edit & delete functions.
    - Favouriting celebrities that makes a list of them for easy find when re-logging in.