



SPAZIO

PERSONAS & USER STORIES

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1. Personas

Personas are a useful tool for developers during software development since it allows them to define the archetypical users of a given system and create a particular user that will mostly likely be using the software. This is beneficial because it allows the developers to easily communicate between each other when explaining how a feature should be implemented such that a persona will be satisfied. For the automated Open Exoplanet Catalogue (OEC) updater system, that Spazio is developing, two personas are defined: the administrator and the user.

1.1 Hanno Rein (Administrator)

- 28-year old, male
- Post-doc from Princeton
- Creator of the Open Exoplanet Catalogue
- Develops software and knows how to use git
- Uses a Unix based operating system
- Knowledgeable in the latest technologies
- Busy (Needs others/software to help him)
- Values open access software; like transparency
- Developed an Exoplanets App for smartphones
- Uses an iPhone and primarily uses it for communication
- Does a lot of calculations with data
- Loves analyzing and visualizing data
- Does a lot of his work on the computer
- Loves to use twitter
- Spends a lot of time observing other planet using a telescope

1.2 Irving Arnold (User)

- 24-year old, male
- Graduate student from UofT, studying astrophysics
- GPA is 3.95/4.0
- Familiar with simple application and has trouble using complex application that involves a lot of user inputs
- No experience with Unix based operating systems, uses Windows 10
- Hates repetitive tasks
- Gets bored easily
- Very busy as his thesis requires a large time commitment
- Enthusiastic about space and reads astrophysics thesis's in his spare time
- Uses an Android phone and checks it regularly
- Very precise, wants everything organized
- Loves exploring and figuring out the details
- Open minded and very talkative
- Familiar with SI (international System of Units)

2. User Stories

User stories are another helpful tool in software development as it allows for high visibility of the features that must be implemented in a system. These user stories can have a priority associated with them and be scheduled to be completed relatively easily. Furthermore, user stories allows for developers to more easily determine the time needed to complete a certain task which can be used to construct a realistic schedule and lay out milestones.

2.1 Administrator

The administrator is the individual with the highest level of control over the application. They have the ability to change the strictly defined characteristics of the system such as updating intervals, the websites being tracked, and who can use the system. Additionally, they have access to all the primary features of the application such as accepting the addition or edit of a planet in the OEC. The following are the user stories associated with the administrator.

- As Hanno (an administrator), I want GitHub user permissions to be integrated into the application, standardizing a binary permission system for all users, where either you have all access or not.
- As Hanno (an administrator), I want the application to standardize all units of measurements found in other catalogs to one that I specify in the settings of the application.
- As Hanno (an administrator), I want plugin API support for the application, where I can create, add, modify extensions written in a programming language for the application to use to extract data from other catalogs or to update existing extensions for catalogs where the data formats is no longer compatible with the application.
- As Hanno (an administrator), I want to be able to revert or edit changes made by other users of the system by selecting a particular revision version from a list.
- As Hanno (an administrator), I want to receive email confirmation when the application has finished running and it has found new planets in other exoplanet databases.
- As Hanno (an administrator), I want the application to check other exoplanet databases for new planets, daily at 11:59pm.
- As Hanno (an administrator), I want to be able to sort new planets found by the application by clicking on specific characteristics on a form.
- As Hanno (an administrator), I want to be able to bulk approve multiple planet additions/edits by checking a checkbox when shown a list of new changes.
- As Hanno (an administrator), I want to be able to change the characteristics of a new planet entry/edit before it is pushed into the database, by pulling up a form containing these characteristics
- As Hanno (an administrator), I want to see the source of the data when adding/editing a planet in the database.
- As Hanno (an administrator), I want to see the planets that have been most recently added/edited by the application in the OEC.
- As Hanno (an administrator), I want to be able to force the application to run even if it is not scheduled to run.

2.2 User

The user is an individual that is chosen by the administrator to have access to all of the primary feature of the system such as the accepting the addition or edit of a planet in the OEC. The following are the user stories associated with the user.

- As Irving (a user), I want to receive email confirmation when the application has finished running and it has found new planets in other exoplanet databases.
- As Irving (a user), I want to the application to check other exoplanet databases for new planets, daily at 11:59pm.
- As Irving (a user), I want to be able to sort new planets found by the application by clicking on specific characteristics on a form.
- As Irving (a user), I want to be able to bulk approve multiple planet additions/edits by checking a checkbox when shown a list of new changes.
- As Irving (a user), I want to be able to change the characteristics of a new planet entry/edit before it is pushed into the database, by pulling up a form containing these characteristics.
- As Irving (a user), I want to see the source of the data when adding/editing a planet in the database.
- As Irving (a user), I want to see the planets that have been most recently added/edited by the application in the OEC.
- As Irving (a user), I want to be able to force the application to run even if it is not scheduled to run.