

Space station agency

User Requirements

New users

- Register to the system
- Choose the type of users for the account

Travelers/Tourists

- Pay for the trip
- Have a payment account in the application

Scientist

- Manage (Publish, remove, update) a research
- Download another scientist's research
- Manage (download, update, remove) scientific data from the database
- View the work progress of his own project
- Rate another Scientist's research
- View another Scientist's research

Admin

- Manage (Add, Delete, Update) accounts
- Manage (Add, Delete, Update) space ships
- Manage (Add, Delete, Update) trips
- Manage (Add, Delete, Update) researches
- View salary
- Print trip reports
- Generate bill
- Manage (create, view) report accident
- Print space ship reports
- Evaluate the space ship condition
- Registered a space ship into the system
- Print the rating of the trip
- Enter the schedule of the month for the Astronauts

Astronauts

- View the schedule of the month
- View the space ship states
- Rate the space ship crew
- Rate the space ship condition
- Register for training course

Common requirements

- Login/logout
- Book a trip
- Mange (Cancel, Change) trip
- View the trip that's available
- Rate the trip

System requirement

New user

Register to the system

Input	Put the ID and the password
Output	Go to the home page
Pre-Condition	Accept the term and condition

Choose the type of users for the account

Input	Display a menu to choose a user from and type the code for the user
Output	Display if he is a qualify to be this user or not
Pre-Condition	The system must approve for upgrading to the user

Travelers/ Tourists

Pay for the trip

Input	Put the amount of money to complete the payment
Output	The system display that "the payment was done successfully"
Pre-Condition	The money must be equal for the price of the trip

Check the payment account in the application

Input	
Output	Display the Balance at the account
Pre-Condition	Must be a user

Scientist

Publish a research

Input	Scientist's name, Research name
Output	The system display: "The process was done successfully"
Pre-Condition	Research doesn't exist

Remove a research

Input	ID of the research
Output	The system display: "The process was done successfully"
Pre-Condition	Research exists

Update a research

Input	ID of the research
Output	The system display: "The process was done successfully"
Pre-Condition	Research exists

Download another scientific research

Input	Enter the ID of the research
Output	The system print: "Download was done successfully"
Pre-Condition	Research exists

Download scientific data from the database

Input	Choose the data type
Output	Download was done successfully
Pre-Condition	Data exists

Update scientific data from the database

Input	Choose the data type
Output	The modify was done successfully
Pre-Condition	Data exists

Remove scientific data from the database

Input	Choose the data type
Output	The modify was done successfully
Pre-Condition	Data exists

View the work progress of his own project

Input	
Output	Display the work progress by from 0 to 100 percentage
Pre-Condition	Project exists

Rate another Scientist's research

Input	ID research number rate it from 0 to 5
Output	A rating was done successfully
Pre-Condition	Research exists

View another Scientist's research

Input	ID research number
Output	The system displays the research
Pre-Condition	Research exists

Admin

Delete an account

Input	Enter the ID of the account
Output	The operation was done successfully
Pre-Condition	Account exists

Update an account

Input	Enter the ID of the account and the modify one or more than one field
Output	The operation was done successfully
Pre-Condition	Account exists

Add a space ship

Input	Enter the ID, name, crew, model, state
Output	The operation was done successfully
Pre-Condition	Ship doesn't exist

Delete a space ship

Input	Enter the ID of the ship
Output	The operation was done successfully
Pre-Condition	Ship exists

Update a space ship

Input	Update one or more than one of the fields
Output	The operation was done successfully
Pre-Condition	Ship exists

View salary

Input	
Output	The system displays the Salary for all Admins
Pre-Condition	

Print trip reports

Input	
Output	The system display upload was done successfully
Pre-Condition	

Generate bill

Input	The id number of the trip
Output	The system print:" The bill was generated successfully
Pre-Condition	

Create report accident

Input	The user print creates report accident then put the ID of the trip and damage description
Output	The system prints the report was done successfully
Condition	There must be a trip on the system

Print space ship reports

Input	The id of the ship
Output	The system prints report and the state of the ship
Pre-Condition	The space ship must be registered to the system

Evaluate the space ship condition

Input	The id of the ship
Output	Display a menu of what the user wants to do
Pre-Condition	The space ship must be registered to the system

Registered a space ship into the system

Input	Enter a registered space ship on the command and print the name of the ship
Output	The system prints the spaceship was registered successfully
Pre-Condition	

Print the rating of the trip

Input	The ID of the trip
Output	The system displays the rating of the trip and the Astronaut of the ship
Pre-Condition	The ID of the trip must be valid

Enter the schedule of the month for the Astronauts

Input	Id of the crew, date of the trips, destination, ID of the ship
Output	The system displays the schedule and print the schedule was successfully registered
Pre-Condition	

Astronauts

View the schedule of the month

Input	Date
Output	The system displays the schedule
Pre-Condition	

View the space ship states

Input	The ID of the space ship
Output	The system displays the state of the space ship
Pre-Condition	The ID must be valid

Rate the space ship crew

Input	The ID of the crew member then rate from 1 to 10
Output	The system prints rate was done successfully and go to home page
Pre-Condition	

Rate the space ship condition

Input	Choose rates the space ship condition and rate it from 0 to 10
Output	The system prints rate was done successfully and go to the home page
Pre-Condition	

Register for training courses

Input	ID of the course
Output	The operation was done successfully
Pre-Condition	

Common requirements

Login

Input	Enter the ID and the password
Output	Go to home page
Pre-Condition	

Logout

Input	
Output	Go to login page
Pre-Condition	The user must be login in the system

Book a trip

Input	Trip number, ID of the user, name
Output	Book was done successfully
Pre-Condition	The trip must be available

Manage (Cancel, Change) trip

Input	Choose the trip number that the user wants to edit and then press enter
Output	The system print "the process has been successfully done"
Pre-Condition	The trip must be available if the user wants to change the trip

View the trip that's available

Input	
Output	Display the trip ID, name, start/arrival date and destination.
Pre-Condition	

Rate the trip

Input	Trip ID then rate it from 0 to 5
Output	Rate was done successfully
Pre-Condition	The user must be on that trip

Non-functional requirements are:

- 1- Easy to use interface.
- 2- Available 24/7
- 3- Accessibility by many users with high performance.
- 4- Dependable.