Design and develop Synputer - User stories and defining requirements

feature: CPU Requirements

scenario: OS Executing Process

Given The computer is switched on and the OS

when choosing a CPU

then I will use a motorola 68k series CPU

and with a minimum of 512Kb of RAM

then the computer will be compatible with subsequent chips

Feature: Expansion option

Rule: Forward compatibility

Given the user buys an expansion pack

Given the user possesses a third party expansion pack

Then the user is able to upgrade his machine

Feature: Emulator

Rule: Backward compatibility

Given the old game is installed

When the user starts the game

Then the emulator should run all old games at same speed as existing machines

And run a business application at the same time

Feature: EZ business suite

Given: the PC runs on HB/OS

Then the user should be able to use the word processor

And EZ-Sheet

And EZ-DB

And EZ-Graph

Feature: Error logs

Scenario: the PC boots into HB/OS

Given that there is media space in cartridge B

Then the OS will log warnin messages

And error messages

When the media is full

Then the OS will crash

Feature: Ports

Scenario: fitting of ports

Given the gamer needs a controller

and the user should be able to use a keyboard connector and joystick port

When the port is fitted

Then the connection is established with the PC

Feature: Memory

Scenario: ROM configuration

Given a minimum requirement is a single 8KB ROM containing the boot loader and hardware configuration app

When ROM chips are installed

Then the PC can store data on the chip

Feature: Portable PC

Rule: portability

Given the PC has portable power source

And portable dimensions

Then the user can use it anywhere

Feature: Battery life and portability

Rule: portability

Given: personal computer

When finalizing the design

Then should aim for a lightweight and portable form factor, weighing a maximum of 2 kilograms

And it should have sufficient battery capacity to provide at least 2 hours of running time for enhanced portability and usability on the go

Feature: RAM

Scenario: PC multitasking

Given: PC is on and working

When choosing RAM size

Then select enough RAM for emulator to launch

And business application to run simultaneously

Feature: Keyboard interchangeability

Given: Keyboard port

When the user utilizes another keyboard layout

Then the user should be able to easily switch keyboard via port connection

Feature: Network Connectivity

Scenario: Using Network Connections

Given: the Synputer is powered on and connected to a network

When: the user selects the "Connect to Network" option

Then: the Synputer scans for available networks and displays a list of network options to the user

And: the user can select and connect to a desired network by providing the necessary credentials