Requests virtual machine resources

**Brief description:**

This use case describes how a student requests virtual machine resources to head professor.

**Actors:**

Student, Head Professor

**Preconditions:**

Student is logged in Senior Project Website and under ‘My project’ page, choose a project deadline is passed.

**Basic flow of events:**

1. Student clicks on create vm request button
2. System prompts create vm request html page
3. Student selects OS of preference, RAM, storage amount and number of vm needed, then
   * 1. Click submit option and vm request is sent to head professor
     2. Or click on plus sign to add another vm setting request ‘repeat steps 2 to 3.1.2’
4. System submits request or lets student create another request, depend on student choice

**Alternative flow of events:**

1. Student misses one of the setting parameters in the vm request

Request won’t be processed and a pop up message will notify student about it.

1. Student navigates away from request

Request is considered not valid and destroyed.

**Post condition:**

1. Student vm request successful

The request must show a status bar of ‘PENDING’.

**Special Requirements:**

Student request must be saved into a permanent data storage.

Head Professor is notified

**Brief description:**

This use case describes how the head professor is notified via email when a student submit a virtual machine request.

**Actors:**

Head Professor, Student

**Precondition:**

Student request is submitted successfully, head professor has a valid email address.

**Basic flow of events:**

1. Head professor receive an email notification from student
2. Head professor clicks on link
3. System traces back to Senior Project Website to ‘project ’ page

**Alternative flow of events:**

1. Head professor does not click on tracing link

Student request stays in ‘PENDING’ status as long as the head professor ignores the email-link.

1. Head professor manually visit ‘Project’ page

Request is approved or denied.

**Post conditions:**

1. Head professor successfully sees student vm request and approve or deny it

**Special Requirements:**

All pending requests must be visible to head professor.

VM settings request and team identification like email, name, etc. must be collected and updated if needed.

Head professor modifies request

**Brief description:**

This use case describes how the head professor is able to modify the settings of the vm request made by the student.

**Actors:**

Head Professor, student

**Precondition:**

Student request is submitted successfully, head professor is logged in and under project request page.

**Basic flow of events:**

1. Head professor changes if needed, number of vm, OS, RAM and amount of storage
2. System waits for professor to click submit option or deny option

**Alternative flow of events:**

1. Head professor modify vm settings but do not click submit option

If head professor change page view and comes back previous changes are considered not valid and destroyed.

**Post conditions:**

1. Head professor successfully change and approve vm student request

**Special Requirements:**

Student vm setting request must be updated in the permanent data storage.

Head professor denies request

**Brief description:**

This use case describes how the head professor denies the student vm request.

**Actors:**

Head Professor, Student

**Precondition:**

Student request is submitted successfully, head professor is logged in and under project request page.

**Basic flow of events:**

1. Head professor goes to student vm request
2. Head professor clicks the deny option
3. System updates request status to ‘DENIED’

**Alternative flow of events:**

1. Head professor clicks on deny option but don’t click on submit option

System shows a pop up menu letting him know and request won’t be processed until submit option is clicked or changes will be considered invalid and request status is kept as ‘PENDING’

**Post conditions:**

1. Head professor successfully denies the vm request, a successful pop up message should show up and request status is updated to ‘DENIED’

**Special Requirements:**

Student vm setting request most be check in the permanent data storage for updates and request status updated to denied

Head professor approves request

**Brief description:**

This use case describes how the head professor approves the student request.

**Actors:**

Head Professor, Student

**Precondition:**

Student request is submitted successfully, head professor is logged in and under project request page.

**Basic flow of events:**

1. Head professor goes to student vm request
2. Head professor clicks the accept option
3. System updates request status to ‘APPROVED’

**Alternative flow of events:**

1. Head professor selects on accept option but don’t click on submit option

System shows a pop up menu letting him know and request won’t be processed until submit option is clicked or changes will be considered invalid and request status is kept as ‘PENDING’.

**Post conditions:**

1. Head professor successfully approves the vm request, a successful pop up message should show up and request status is updated to ‘APPROVED’

**Special Requirements:**

Student vm setting request most be check in the permanent data storage for updates and request status updated to approved.

Head professor sends vm request

**Brief description:**

This use case describes how the head professor sends via email the request of vm creation to ‘John’.

**Actors:**

Head professor, ‘John’

**Precondition:**

Student request is submitted successfully, head professor approves student request and clicks on submit option.

**Basic flow of events:**

1. Head professor enters ‘John’ email
2. Head professor click option submit
3. System collects request info and sends request via email

**Alternative flow of events:**

1. Head professor changes page but do not click submit option

If head professor changes page and comes back previous changes are considered not valid and destroyed.

**Post conditions:**

1. Head professor successfully submit the vm request, a successful pop up message should show up

**Special Requirements:**

Student vm setting request most be check in the permanent data storage for updates and request status updated to approved