



الجامعة السورية الخاصة
SYRIAN PRIVATE UNIVERSITY

Managing student projects system based on cloud computing using scrum methodology

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Project Goals



Organizing the projects suggestions process.



Automating and organize the project registration process.



Creating environment of valuable communication.



Explain the importance of cloud computing services.



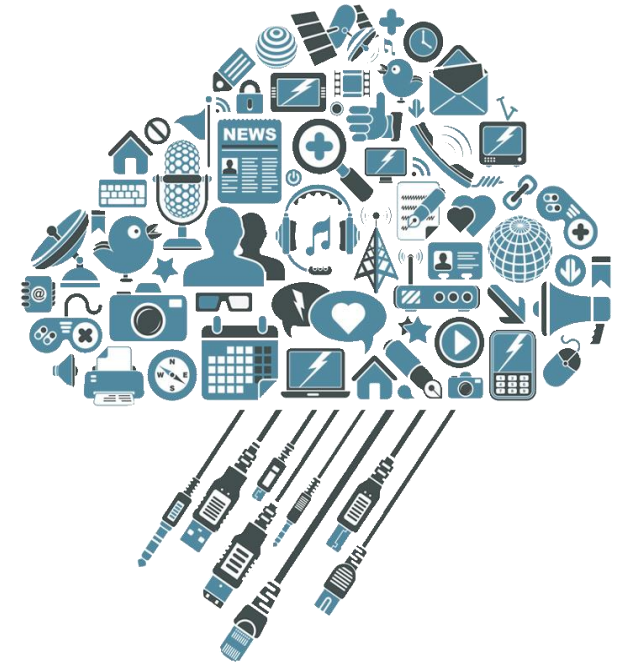
Explain how to develop a software using scrum framework

About Cloud Computing

Cloud computing is the on-demand delivery of IT resources over the internet. Instead of buying, and maintaining physical data centers and servers, you can access technology services on an as-needed basis from a cloud provider.

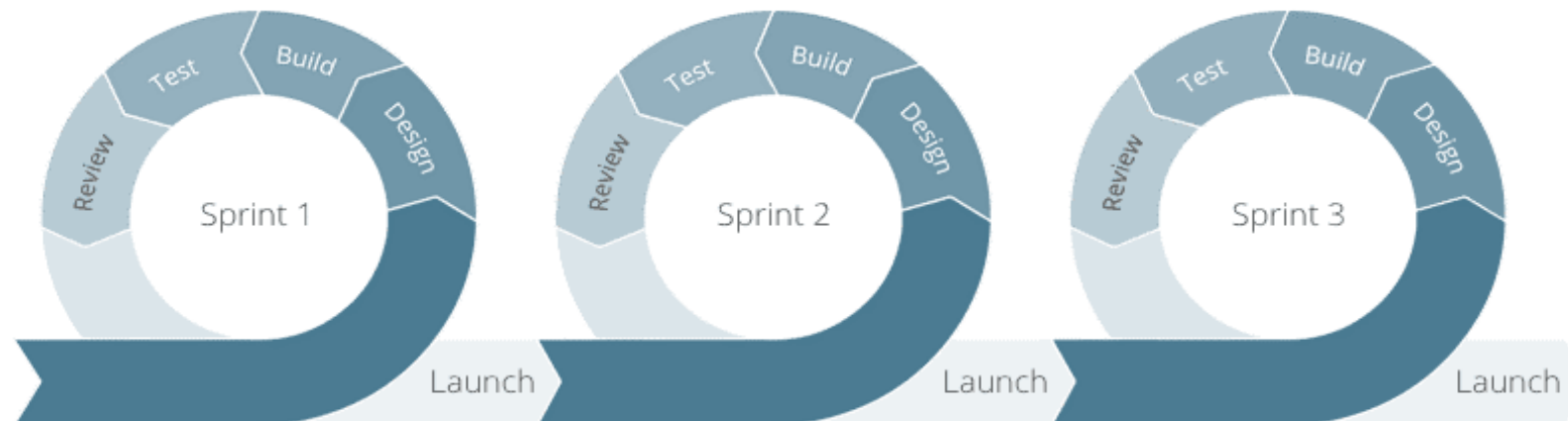
Cloud providers offer a wide range of service:

- Infrastructure as a Service (IaaS)
- Platform as a service (PaaS)
- Software as a Service (SaaS)



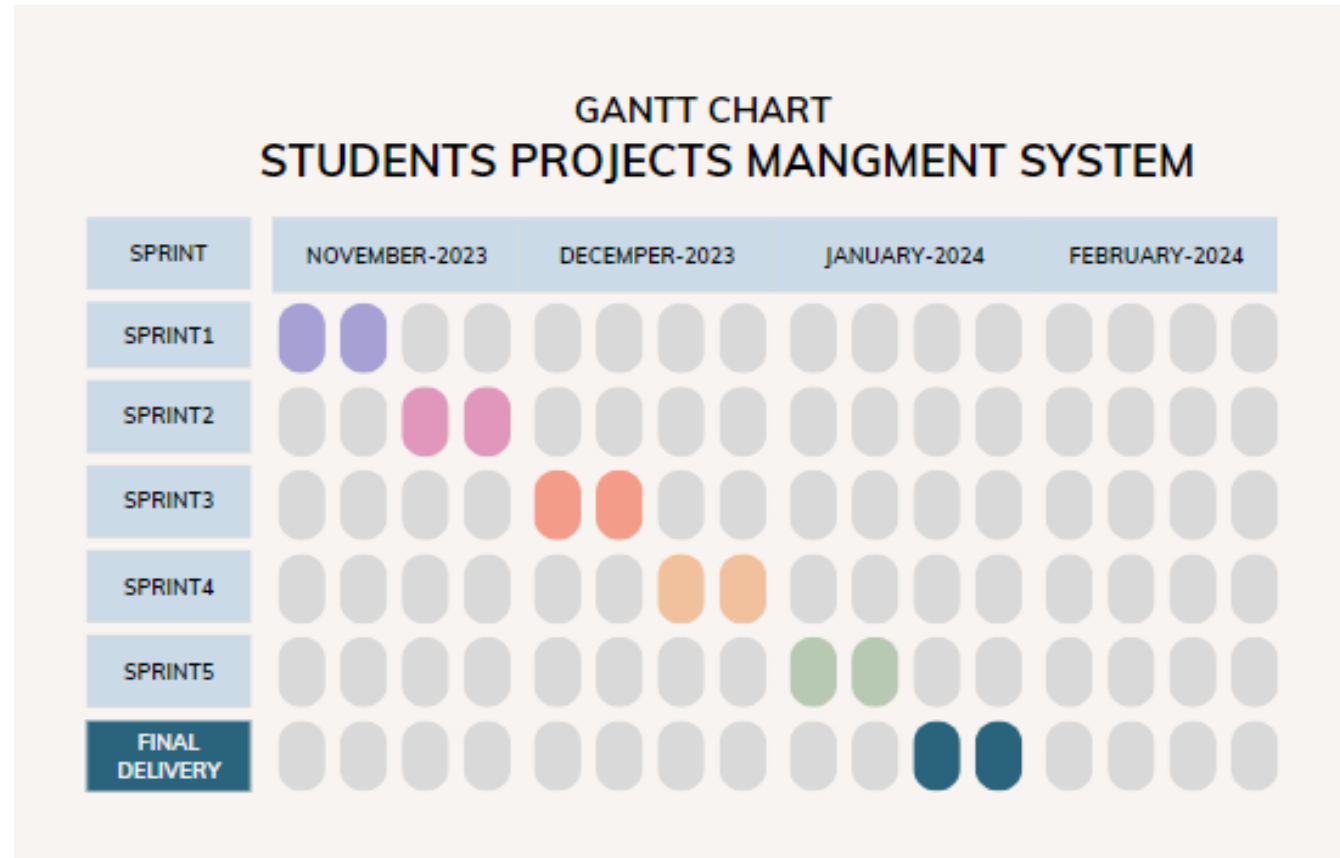
About Scrum

The Scrum framework's process is, like all Agile approaches to software development, both iterative and incremental. That means development tasks towards a working first iteration of the product are divided into iterations called **Sprints** in Scrum.



Planning

In our project we find 2 weeks, is a good time for a sprint



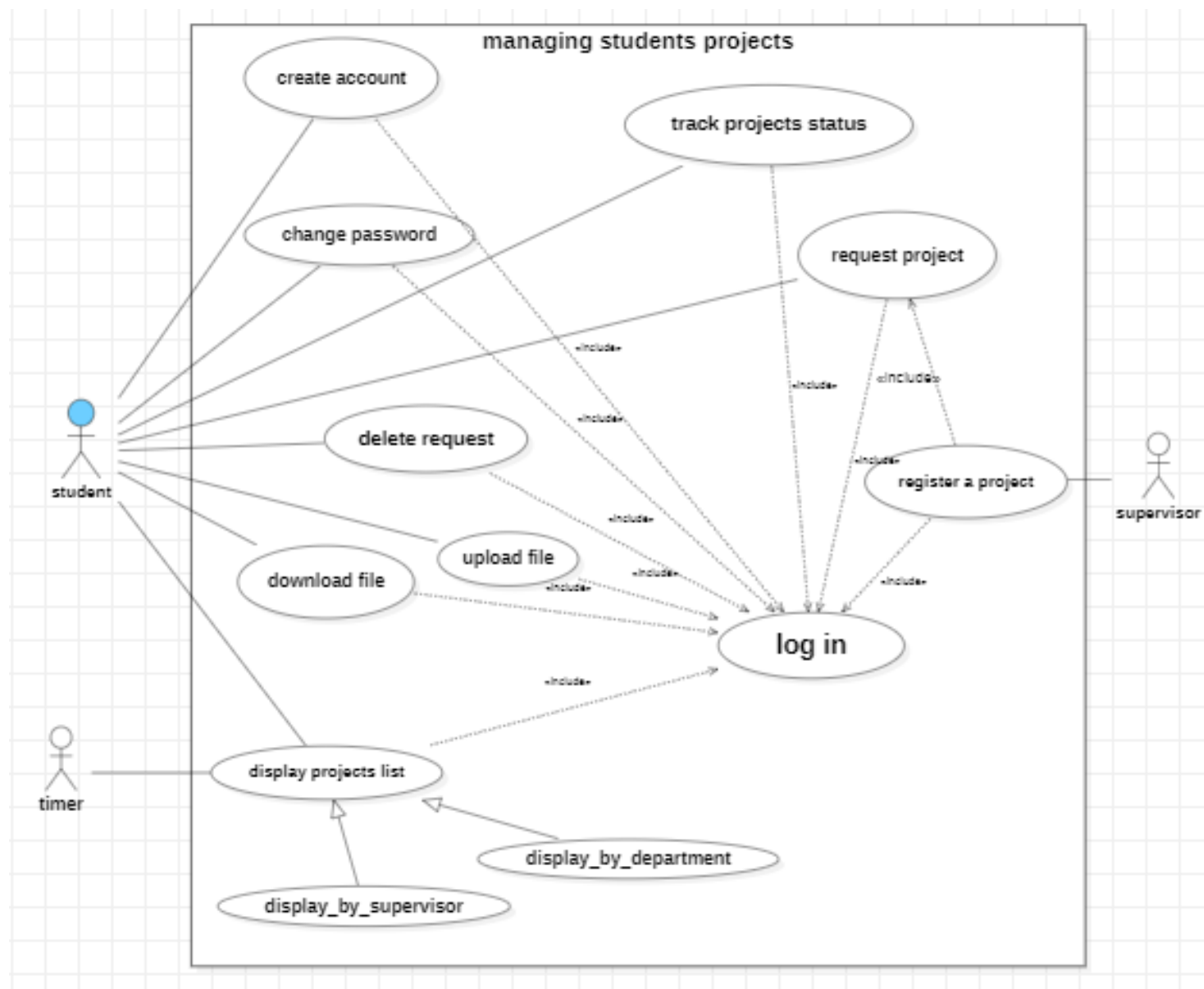
Requirements in high level

- Automating the project registration process.
- Accounts Management.
- Organizing the projects suggestions process by supervisors.
- Creating an environment of valuable communication between the supervisor and the students of each team.
- The ability to track students' work in an organized manner.
- Managing and facilitation the projects evaluation process.

Detailed requirement

| ID | Title | category | description | sprint | status | priority |
|----|--------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|----------|
| 1 | create student account | accounts management | student can make account for one time by his university id(unique account). | 1 | | high |
| 2 | create supervisor account | accounts management | supervisor can make account for one time by his university id (unique account) . | | | |
| 3 | create a manager account | accounts management | manager can make account for one time by his university id(unique account). | | | |
| 4 | set a supervisor as a member of project evaluation committee | evaluation process | make a supervisor as a member of the project evaluation committee by the top manager. | | | |
| 5 | log in the system | accounts management | by entering the user id(university id) and password they determine while they make their accounts. | 1 | | high |
| 6 | change password | account management | all users can change their passwords,if they asked. | 1 | | high |
| 7 | display projects list by department | project registration | students in the beginning of a semester can access the projects list that made by supervisors, each project with its informations. | 1 | | high |
| 8 | display projects list by supervisor | project registration | student in the beginning of a semester can access the projects list that made by supervisors, each project with its informations. | 1 | | high |
| 9 | tracking project status | project registration | student can see the status of a project (taken , available), in the period from suggestion and assigning projects. | 1 | | high |
| 10 | register a project | project registration | student make a register request by choose a project and select the team members with him(enter their ids). | 1 | | high |
| 11 | accept to make a request. | project registration | the system will ask the team members by their accounts if they accept to make a project request in this conditions. | 1 | | high |
| 12 | receive requests. | project registration | supervisors will receive the request of their projects from the students they make it. | | | |
| 13 | show student information | project registration | supervisors can see an academic overview of a student. | | | |
| 14 | project approval | project registration | supervisors after they get the request to a project they can approves it to be registered. | | | |
| 15 | projects idea approval | project suggestion | the top admin can approves any projects suggested by any supervisor. | | | |
| 16 | projects idea reject | project suggestion | the top admin can rejects any project suggested by any supervisor. | | | |
| 17 | view project status | projects suggestion | after a supervisor suggest a project he can track its status. | | | |
| 18 | add a project | projects suggestion | in the beginning of each semester the supervisors add a projects ideas with information like goals and description and plan to the system. | | | |
| 19 | delete a project | projects suggestion | supervisors can delete a project as long as no students take it. | | | |
| 20 | fully control of project suggestion process | manager actions | knowing each move or edit made by the subervisors about projects | | | |
| 21 | edit project information | projects suggestion | supervisors can edit projects' information as long as no students take it(if he edit it after any students take it the system will take their approval). | | | |
| 22 | access a project information | manager actions | the top admin can track or see any project work or progress. | | | |
| 23 | upload project files | tracking services | students and supervisors can upload project files | 1 | | high |
| 24 | download files | tracking services | students and supervisors can download project files | 1 | | high |
| 24 | delete request | project registration | student can delete a request as long as supervisor hasn't accepted | 1 | | high |
| 25 | request a project | project registration | student can make a request for any project. | 1 | | high |
| | | | | | | |
| 26 | user friendly | non-functional requirments | the system must be user friendly. | 1 | | high |

Use Case Diagram



| REQ-ID | TITLE | Description | USE CASE | depends on | SRS sect | High level de |
|--------|--------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------|-------------|----------|---------------|
| 1 | create student account | student can make account for one time by his university id(unique account). | UC-1(create account) | none | | |
| 2 | log in the system | by entering the user id(univerity id) and password they determine while they make their accounts. | UC-2(log in) | none | | |
| 3 | change password | all users can change their passwords,if they asked. | UC-3(change password) | none | | |
| 4 | display projects list by depa | students in the beginning of a semester can access the projects list that made by supervisors, each proje | UC-4(display project list) | none | | |
| 5 | display projects list by super | student in the beginning of a semester can access the projects list that made by supervisors, each projec | UC-4(display project list) | none | | |
| 6 | tracking project status | student can see the status of a project (taken , available), in the period from suggestion and assigning pr | UC-5(track project status) | REQ-7 | | |
| 7 | request project | student can make a request for any project. | UC-6(regonest a project) | REQ-4,REQ-3 | | |
| 8 | upload project files | students and supervisors can upload project files | UC-7(upload files) | REQ-10 | | |
| 9 | download files | students and supervisors can download project files | UC-8(download files) | REQ-10 | | |
| 10 | register project | after a supervisor agree for a requet the student can register a project. | UC-9(register project) | REQ-7 | | |
| 11 | delete request | student can delete a request as long as supervisor hasn't accepted | UC-10(delete request) | REQ-7 | | |
| 12 | user friendly | system must have simple interfaces | | | | |



THE END

Thanks for listening
