

Week 3 – Tutorial Question Assignment

Suppose Nepal Clearing House Limited (NCHL) has made an agreement with Herald College Kathmandu for paying college fees via Connect IPS in a connect IPS website. For paying the college fees student/parent need to add the details like student ID, student level, student enrolled course, student name in the herald college website it will display the total fees need to be paid for that student. After displaying the total fees, they can now make a payment using Connect IPS service with their linked bank account id and name and student ID with the amount they need to pay will be filled up automatically and can proceed the payment (payment will be done to Herald college associated bank account by default) in the connectIPS website.

After the successful payment, payer will receive the receipt with transaction id with payment status as paid and student id in pdf format that can be downloaded from connectIPS website.

When the student (with same student ID) who have already paid the fees again apply for the payment, system will show the status of Payment done in the herald website. Again, in the next semester the payment will be renewed for that student in the herald website.

To implement these features SCRUM framework is chosen. Prepare SCRUM artifacts, SCRUM roles and SCRUM events for the first sprint in details.

Scrum Roles:

1. Scrum Master: The Scrum Master is in charge of overseeing all Scrum events, making sure the team follows the framework, and offering support to help the team advance over time.
2. Product Owner: The product owner is primarily in charge of managing the product backlog, which entails defining user stories and prioritizing work to assure the intended outcomes of the stakeholders.
3. Developers: A development team can include between four and six persons, each of whom can execute full-stack development or particular functional tasks like UI/UX, frontend, and backend.

SCRUM Artifacts = Product backlog is submitted in a different .xlsx file

Sprint Backlog

Increment (Release) in the first month

SCRUM events =

Explain each event that happened within the sprint like Sprint planning, Daily Scrum, Sprint review and sprint retrospective.

1. **Sprint Planning:** The sprint planning event is a gathering of the development team and the product owner where they select the user stories from the product backlog that will be worked on during the next sprint and determine the amount of effort required for each story.
2. **Daily Scrum:** The team gathers for a brief daily meeting to discuss progress, and each team member gives an update on the work they have accomplished that day.
3. **Sprint Review:** The sprint review is done to rate the project's progress in terms of both quality and speed. The product owner is in charge of the operation during this time, and the developers show off their development.
4. **Sprint Retrospective:** Each sprint is followed by a meeting in which the development team reviews the results and looks for potential areas for improvement.