

Introduction



A3.4 Learning activity

Project documentation using the Scrum framework for the planning and estimation phase.



Development

1. Join your team and start preparing what is requested below:

- ☒ 1.1 Identify the tasks for each user story.
- ☒ 1.2 Estimate tasks using some digital tool.
- ☒ 1.3 Create the Sprint backlog with estimated tasks in hours.
- ☒ 1.4 Develop your gantt chart.
- ☒ 1.5 Identify dependencies of each task and relate it to the activity it depends on.
- ☒ 1.6 Develop the sprint Burndown chart.



[Web link to the documentation \(Spring backlog, Gantt chart and Burndown chart\)](#) or you can see the screenshots below 📌 .

- Sprint backlog

BackLog

+ Add task

To do

Sprint Review

22 hrs

Jul 15

CR

EX

EQ

+2

Sprint Retrospective

22 hrs

Jul 15

CR

EX

EQ

+2

Next Sprint Planning

22 hrs

Jul 16

CR

EX

EQ

+2

Doing

HU03-2 Course information - 8pts

As: Operator

Want: When I select a course, it allows me to see information such as: who it...

22 hrs

Jul 6

+

HU01-3 Course administration - 40pts

As: Trainer

Want: That the system provides "trainer" type users with the necessar...

22 hrs

Jul 13

+

HU03-6 Viewing user information - 13pts

As: Coordinator

Want: That the system has a module where you can view detailed...

22 hrs

Jul 14

+

Review

HU01-2 Course catalog - 13pts

As: Operator

Want: To be able to visualize the courses that are available and that ar...

Just now

Jul 2

+

HU04-4 Theoretical evaluation - 8pts

As: Operator

Want: That the system allows me to take an assessment test for the cours...

Just now

Jul 1

+

Done

Review #5718

PCA Sub e-Learning > 1 Sprint

HU01-2 Course catalog - 13pts

As: Operator

Want: To be able to visualize the courses that are available and that are shown in the form of a catalog, that mainly show the courses according to my job position.

To: To know how to select and enroll in those courses that will allow me to work in my job.

Acceptance Criteria:

- The user must be able to view all courses without exception.

- The platform must initially show the user the courses corresponding to his position.

Less

Start/Due	Jun 28 → Jul 02 Repeat
Labels	Select
Assignees	+
Time	Add logged time / Add estimated time
Progress	0%

Add field or Manage fields BETA

Subtasks

Add task and hit enter/return key

Jun 29 Visual design of the course catalog 23 hrs

OR

CR

+

Jul 1 Display of courses available to the user

OR

CR

+

Jun 29 Development of search and sort filters

AR

+


Software testing

AR

+

2 / 16

3 / 16

 Doing #5717

PCA Sub e-Learning > Sprint

HU03-2 Course information - 8pts

As: Operator

Want: When I select a course, it allows me to see information such as: who it is aimed at, a brief description of what I expect to see in the course and the most current revision.


To: To know if the course I have selected is the most recent one.

Acceptance Criteria:

- The information display of the selected course must include important data such as a brief description and for which position it is related.

Less

Start/Due	Jul 02 → Jul 06 Repeat
Labels	Select
Assignees	+
Time	Add logged time / Add estimated time
Progress	0%
Add field or Manage fields BETA	



Subtasks

Add task and hit enter/return key

- ☐ Jul 2 Design the interface where all the courses are displayed. OK CR +
- ☐ Jul 2 Coding the query in the database of current courses. EQ +
- ☐ Jul 2 Design the popup container to display the course information. EQ +
- ☐ Jul 2 Encode the display of the information in the popup container when it is selected. EV +
- ☐ Jul 5 Add a button on the popup container to start the course. EQ +
- ☐ Jul 5 Unit test of course deployment. EQ +
- ☐ Jul 6 Unit test of the course information display. EQ +
- ☐ Jul 6 Bug fixes. EQ AR +

Doing #5720

PCA Sub e-Learning > 1 Sprint

HU01-3 Course administration - 40pts

As: Trainer

Want: That the system provides "trainer" type users with the necessary privileges to administer the courses.

To: Be able to edit and update the courses that are uploaded to the platform.

Acceptance Criteria:...

More

Start/Due	Jul 05 → Jul 13 Repeat
Labels	Select
Assignees	+
Time	Add logged time / Add estimated time
Progress	0%
Add field or Manage fields BETA	

Subtasks

Add task and hit enter/return key

...

Jul 5

Add the option "Courses" from the side control menu.

EM +

...

Jul 6

Design the main table where the courses will appear.

EM +

...

Jul 7

Coding of the main table where the courses will appear. 22 hrs

EM +

...

Jul 5

Create the query to fill the information screen.

CR +

...

Jul 5

Design the search and sort filters.

OR +

...

Jul 5

Code search and sort filters.

OR +

...

Jul 7

Course editing screen design.

OR CR +

...

Jul 12

Coding of the course editing screen.

OR CR +


...

Jul 7

Creation of the modal window for the confirmation of changes.

ED AR +

5 / 16

 Doing #5721

PCA Sub e-Learning > Sprint

HU03-6 Viewing user information - 13pts

As: Coordinator

Want: That the system has a module where you can view detailed information about the employees in the area, such as the courses they are enrolled in, those they have passed and those that not, as well as expiring and expired certifications.


To: Follow up on those employees who are behind in their certifications and review why.

Acceptance Criteria

- There is a button called "Employees and courses" from the side control menu.
- The system shows you a table with the employees and their courses taken together with search and sort filters.

Less

Start/Due	Jul 09 → Jul 14 Repeat
Labels	Select
Assignees	+
Time	Add logged time / Add estimated time
Progress	0%
Add field or Manage fields BETA	



Subtasks

Add task and hit enter/return key

☐

Jul 9

Design and coding of the "Employees and courses" button in the side control menu.

EX

+

☐

Jul 9

Search filter coding and sorting.

EX

+

☐

Jul 9

Design of the table to display user information.

EQ

AR

+

☐

Jul 12

Coding for the display of user information.

EQ

AR

+

☐

Jul 13

Software unit testing.

EX

+

☐

Jul 13

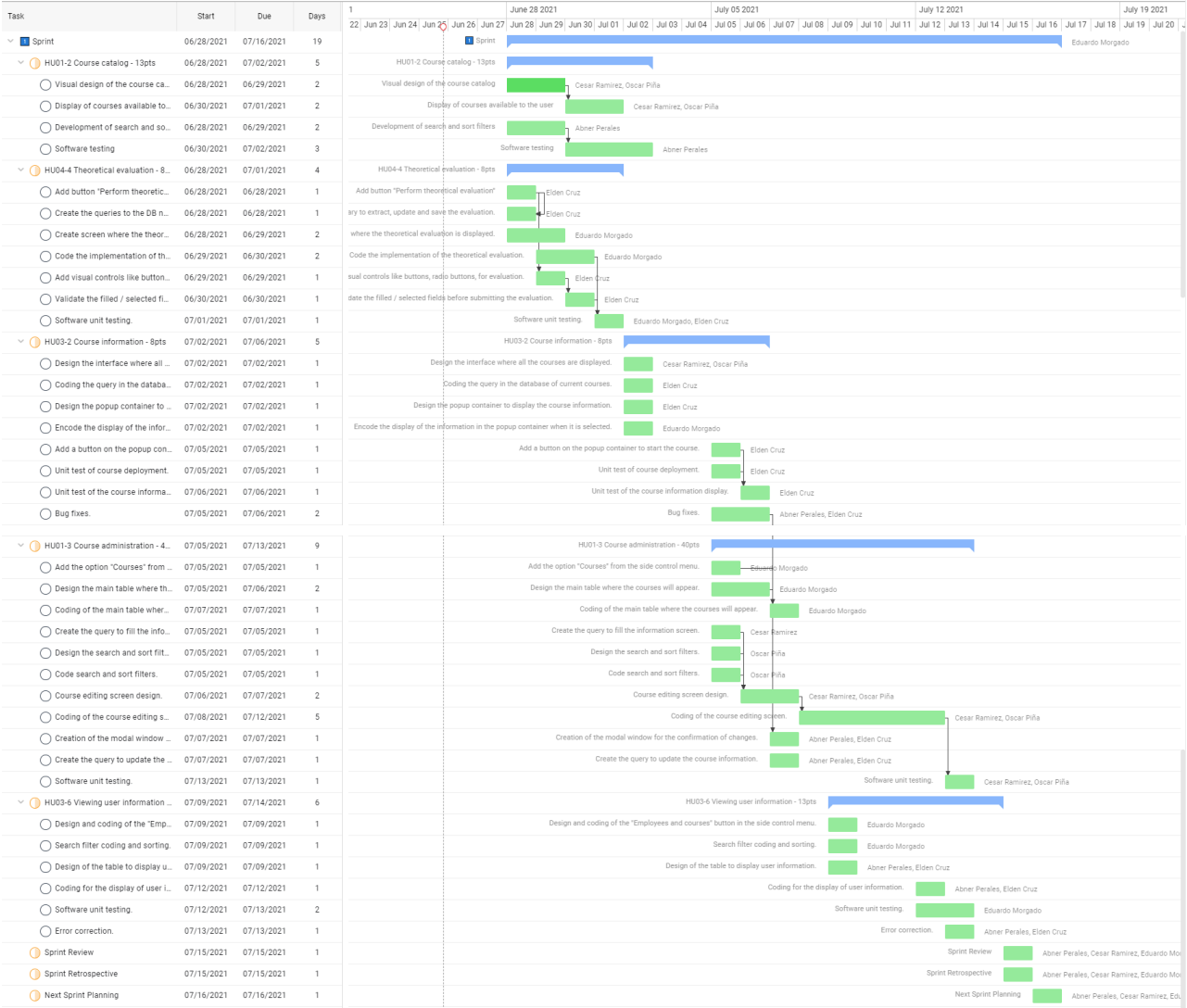
Error correction.

EQ

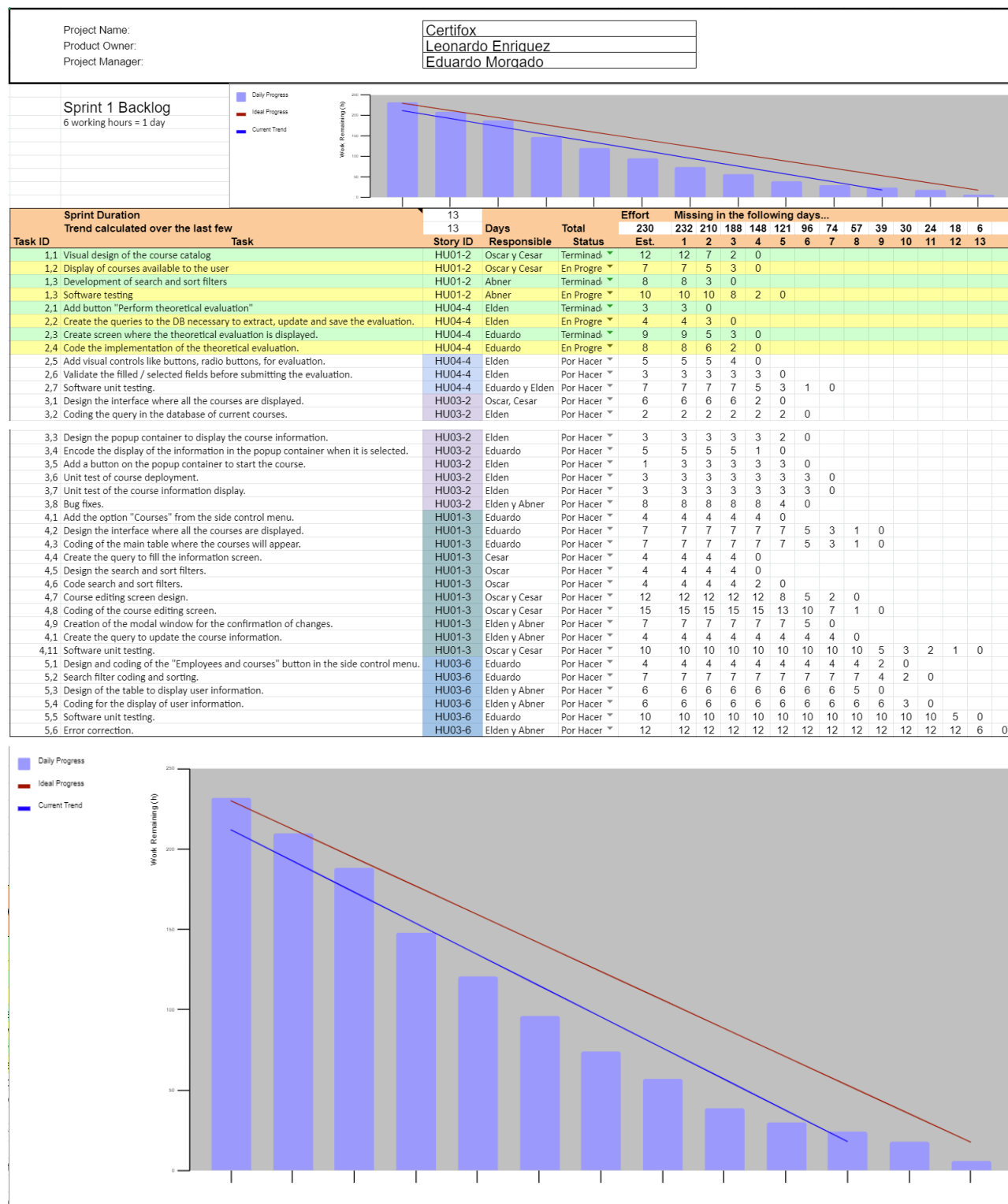
AR

+

- Gantt chart



- Burndown chart



2. Present this information using visual and graphical tools within the sprint planning meeting.
3. Place a section with evidence that shows that you came together to develop the activity as a team.

The top screenshot shows a Jira board for 'PCA Sub e-Learning'. The board is in 'Board view' and displays a 'To-Do' column with four tasks: HU01-1 Login, HU02-1 User connection, HU03-1 Response time, and HU04-1 Course size. Each task has a description and a 'Want' field. The right side of the screenshot shows a Discord server interface with a list of channels on the left and a grid of user avatars on the right. The channels include 'general', 'musica', 'TEA', 'SISTEMAS PROGRAMABLES', 'TALLER DE INVESTIGACION II', 'PROGRAMACION WEB', 'ANALISIS AVANZADO D SOFT...', 'analisis-avanzado', 'general', 'Abner', 'Cesar Ramirez', 'Eduardo Morgado', 'Elden Cruz', 'Working', 'TOPICOS AVANZADOS DS', 'temas-avanzados', 'general', and 'working'. The bottom status bar shows the system clock as 6:18 PM on 6/23/2021.

The bottom screenshot shows a Miro board titled 'MUST Aspectos que tienen que estar...'. The board contains nine sticky notes arranged in a 3x3 grid. The notes are: 'Inicio de sesión RF-01', 'Catalogo de cursos RF-08', 'Información de curso', 'Administración de cursos RF-09', 'Visualización de información de usuarios RF-06', 'Visualización de expiración de certificaciones RF-05', 'Certificación RF-02', 'Evaluación Teórica RF-16', and 'Definir privilegios por rol RF-13 (coordinador)'. The right side of the screenshot shows the same Discord server interface as the top screenshot. The bottom status bar shows the system clock as 6:50 PM on 6/23/2021.

Sprint 1 - Total = 74

- HU01-2 Course catalog - 13pts
- HU03-2 Course information - 8pts
- HU01-3 Course administration - 40pts
- HU01-4 Certification - 5pts
- HU04-4 Theoretical evaluation - 8pts
- HU02-6 Certification expiration display - 5pts
- HU01-3 Course administration - 13pts

MUST Aspectos que tienen que estar...

- Inicio de sesión RF-01
- Catalogo de cursos RF-08
- Información de curso RF-17
- Administración de cursos RF-09
- Visualización de información de usuarios RF-06
- Visualización de expiración de certificaciones RF-05

SHOULD Aspectos

- Liberación de cursos RF-11
- Progreso de curso RF-15

Discord Projects:

- general
- musica
- TEA
- SISTEMAS PROGRAMABLES
- TALLER DE INVESTIGACION II
- PROGRAMACION WEB
- ANÁLISIS AVANZADO D SOFT...
- analisis-avanzado
- general
- Abner
- Cesar Ramirez
- Eduardo Morgado
- Elden Cruz
- Working
- TOPICOS AVANZADOS DS
- temas-avanzados
- general
- working

Voz conectada: general / Projects

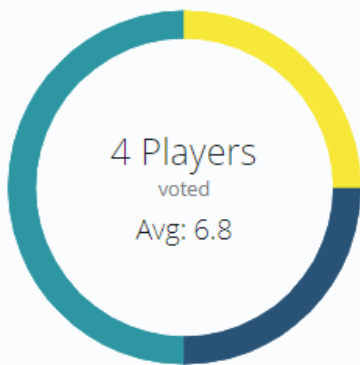
Video: Video Pantalla

BitZerk: Crazy mode

System Tray: 20°C Mostly cloudy 7:04 PM 6/25/2021

Estimación de tareas - Secuencial

HU01-2 Visual design of the course catalog.



- 3
25 % (1 player)
- 4
25 % (1 player)
- 10
50 % (2 players)

Story voting completed

Players: 00:01:17

Eduardo Morgado	10
00:00:47	
EldenCruz	4
00:00:39	
Cesar Ramirez	3
00:00:48	
Abner Perales	10
00:00:37	

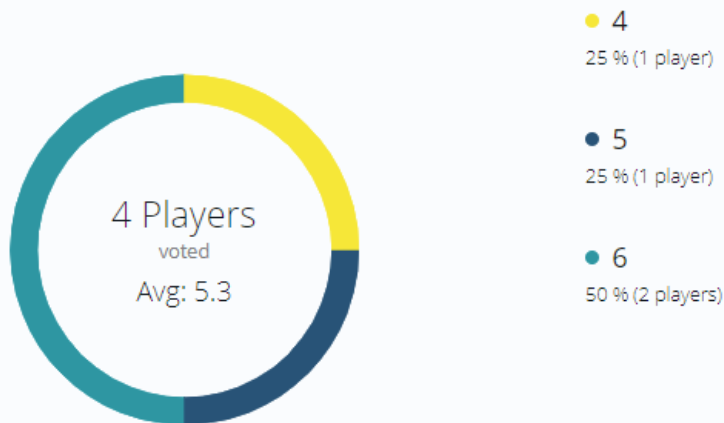
Clear

Next

Invite a teammate

Estimación de tareas - Secuencial

HU01-2 Display of courses available to the user.



Story voting completed

Players: 00:00:58

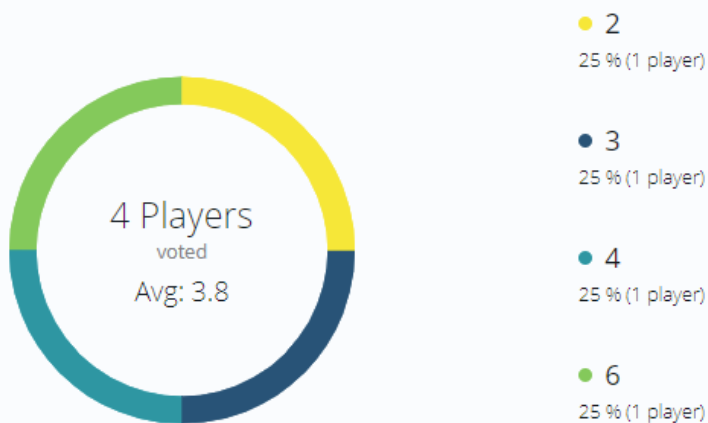
	Eduardo Morgado	4
	EldenCruz	6
	Cesar Ramirez	5
	Abner Perales	6

Clear

Next

Estimación de tareas - Secuencial

HU03-2 Design the popup container to display the course information.



Story voting completed

Players: 00:00:50

	Eduardo Morgado	2
	EldenCruz	6
	Cesar Ramirez	3
	Abner Perales	4

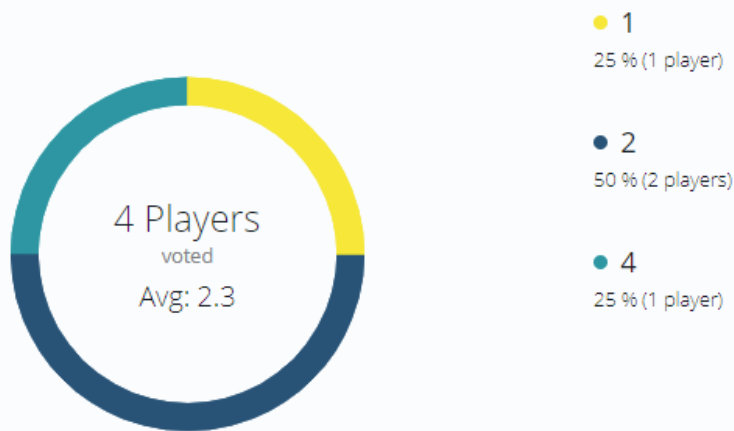
Clear

Next

Invite a teammate

Estimación de tareas - Secuencial

HU03-2 Coding the query in the database of current courses.



Story voting completed

Players: 00:01:06

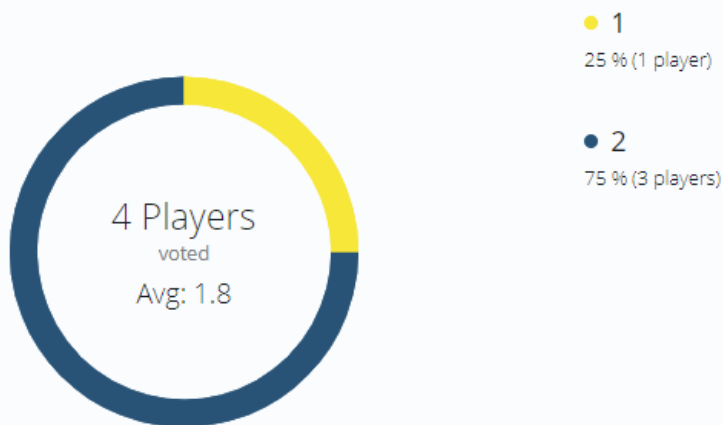
	Eduardo Morgado	1
	00:00:17	
	EldenCruz	4
	00:00:46	
	Cesar Ramirez	2
	00:01:00	
	Abner Perales	2
	00:00:36	

Clear

Next

Estimación de tareas - Secuencial

HU01-3 Agregar la opción de "Cursos" del menú de control lateral.



Story voting completed

Players: 00:00:49

	Eduardo Morgado	2
	00:00:43	
	EldenCruz	2
	00:00:44	
	Cesar Ramirez	1
	00:00:23	
	Abner Perales	2
	00:00:29	

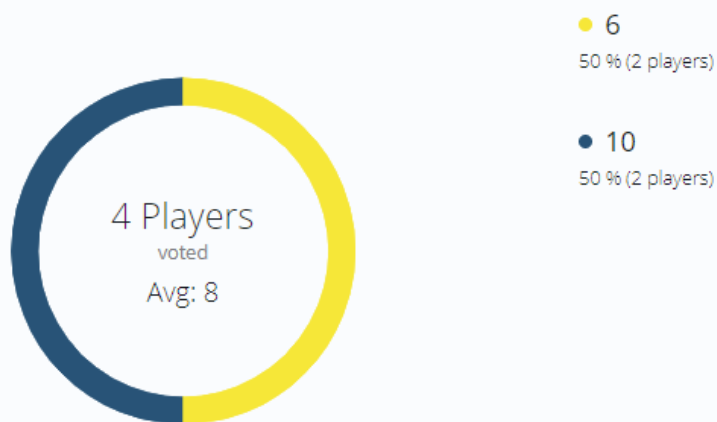
Clear

Next

Invite a teammate

Estimación de tareas - Secuencial

HU01-3 Diseño de la pantalla de edición de cursos.



Story voting completed

Players: 00:01:01

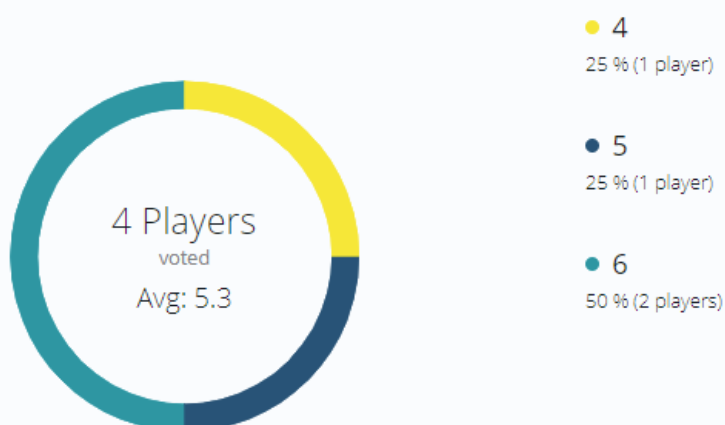
	Eduardo Morgado	10
	00:00:56	
	EldenCruz	6
	00:00:39	
	Cesar Ramirez	6
	00:00:42	
	Abner Perales	10
	00:00:42	

Clear

Next

Estimación de tareas - Secuencial

HU03-6 Search filter coding and sorting.



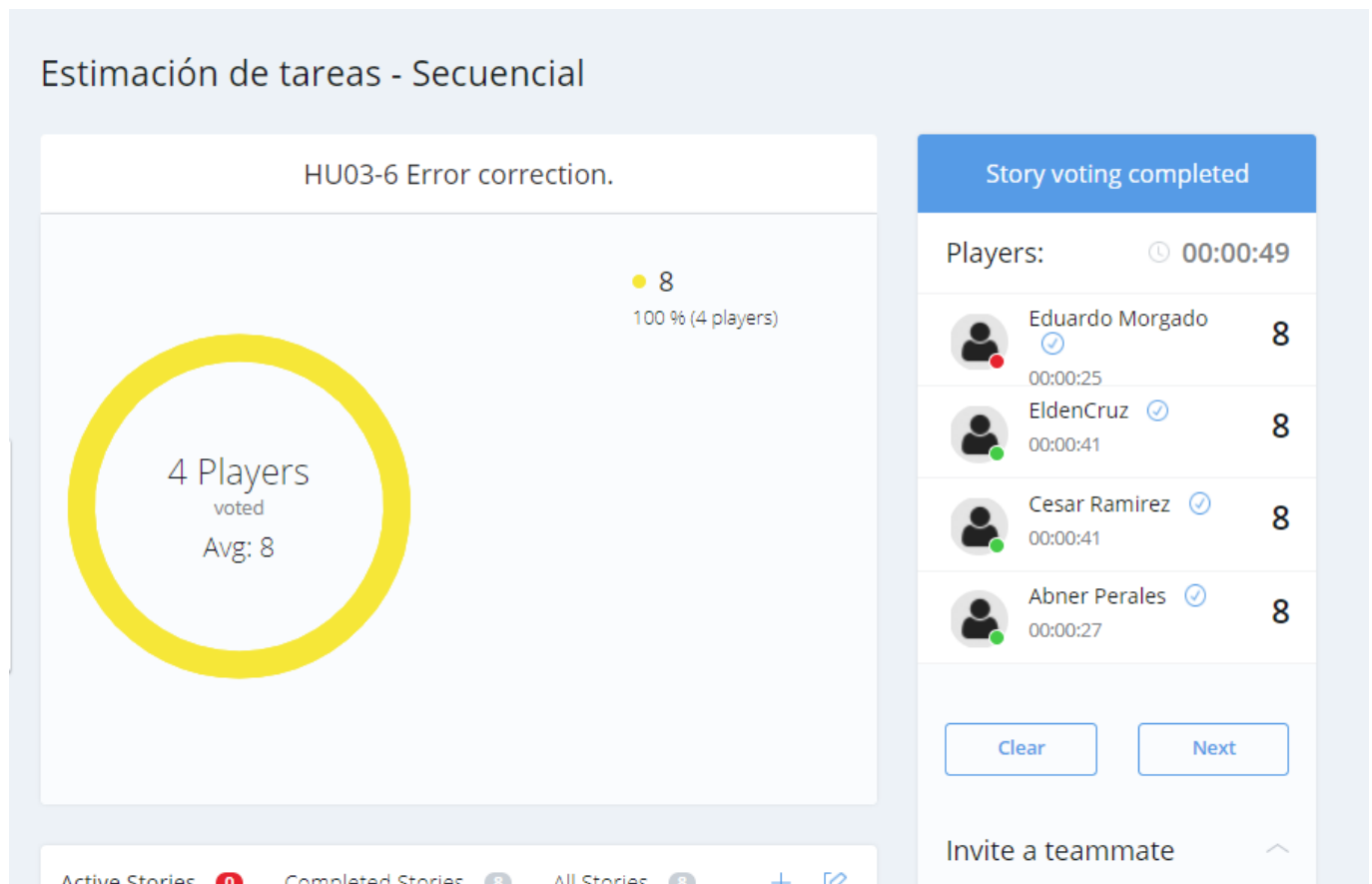
Story voting completed

Players: 00:00:37

	Eduardo Morgado	5
	00:00:32	
	EldenCruz	6
	00:00:18	
	Cesar Ramirez	4
	00:00:26	
	Abner Perales	6
	00:00:24	

Clear

Next



4. Include individual conclusions.

- Cruz Vera Elden Humberto

As the previous activities we did, we had to hold a meeting for the correct development of this one, because we had to define the tasks for the user stories and estimate them. Obviously there were a couple of differences during the estimation of them since everyone has experience in programming, but we reached an agreement. In my opinion this whole process was quite complex and well I had never used a burndown chart before, but now I can appreciate why it is used. I feel that this is a good conclusion for everything related to the agile Scrum methodology, which we have been working on during this last unit.

- Perales Niebla Abner Jesus

In this activity we did things that I had not done in projects with Agile Scrum, which is the time estimation of tasks. I liked this part because in this way, you can see more specifically the time you should invest in the development of the tasks. For example, at the beginning we had estimated the time of the tasks and the user stories, and even so, the Sprint seemed like a waterfall, some tasks after others. However, after thinking it over, we decided to overlap some tasks that can be done at the same time without any conflict. This benefits in not having a lot of downtime and that everyone is working on some task, which is completely efficient.

- Piña Meza Oscar Andres

In this final activity we concluded with the development of the tasks and their estimates, in addition to developing a Burndown Chart which was interesting to observe it visually. With this activity we concluded working with the Scrum framework which I consider is very useful to manage tasks and a team, estimating the tasks was helpful to give us an idea of how the work

would be but we could not carry it out to check that our estimates were not so incorrect, I personally consider that we would have lacked time but it would have been interesting to check it.

◦ Ramirez Cervantes Cesar Manuel

This activity has been quite complicated for me to understand how to perform each of the tools that we use for the development of this activity, however I think that being in a team, the diversity of opinions among all helped us to find the best way to finish the activity. As it is the first time I use the gantt chart and the burn down chart, it was difficult for me to develop better in the activity, but thanks to my great team I solved most of my doubts.

Basically for this activity we estimate each one of the tasks that we are going to use for the development of our stories and in this way we epic them, using again the planitpoker tool to obtain the best estimates for these tasks.

◦ Morgado Jacome Eduardo

In conclusion, both the realization of this activity and the one before last have been among my favorites, activities where as a team we must work together and share our different points of view to reach the same thinking about what, how and when the different activities to be developed for the project will be carried out. Specifically in this activity the most interesting was the estimation of tasks, where using a method proposed by the teacher (in this case sequential planning poker) we were able to determine how much time we estimate to invest in each task of the user stories, thus achieving to calculate the effort in hours to perform, which was represented in a burndown chart.

As a final conclusion, I can say that this subject seems important and indispensable in the grid of my career, because the teacher shows and exemplifies topics that are necessary for software development, where we realize that a computer systems engineer not only develop code, but documents, observes, defines and proposes solutions to solve problems.



Rubric

Criteria	Description	Score
Instructions	Each of the points indicated within the instruction section are fulfilled?	10
Development	Each of the points requested within the development of the activity are answered?	60
Demostration	The student was present during the explanation of the functionality of the activity?	20
Conclusions	Does it include a personal opinion of the activity done by all of the team members?	10



[Go to home](#)



[Direct link to the repository on GitHub - Eduardo Morgado Jacome](#)

 [Direct link to the repository on GitHub - Abner Jesús Perales Niebla](#) 

 [Direct link to the repository on GitHub - Elden Humberto Cruz Vera](#) 

 [Direct link to the repository on GitHub - Oscar Andes Piña Meza](#) 

 [Direct link to the repository on GitHub - Cesar Manuel Ramírez Cervantes](#) 