A Student Friend ELO

Delivery Document

Group DEV-A5-1

Version 0.2

Client: Floor W. / Jan-Chris H.

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PROJECT PLAN

Project Objectives

The project objective is to improve the student learning experience. This aim is to create an easy to navigate student portal system where all relevant information is quickly available including course module materials.

Agreement with Client

- A new better blackboard for Saxion where both the homepage and course page will be easier and more efficient to use for students. The homepage should include all the important features the student needs the most and should be easy to navigate through.
  Important features: Easy access to subjects, news, grades, new implementation of the competences, schedule and exams.
- For the course page it should benefit the students, rather than what is going on in the current situation. An important feature should be that the student can discuss their work peer-to-peer so that student can learn and help each other through their school journey.
  Important features: better navigation, peer-to-peer review.

The role of the customer is to let us know which features are needed for this project and to help us along the way. When we create wireframes or ideas the customer should give us feedback on mentioned ideas and help us achieve a better project.

Project Requirements & Timeline

//Requirements of project and deadlines or scrum meetings...

Group Members

- Keith I – 487130
- Mykhailo G - 470934
- Jane Nguyen - 479411
- Sefania de Hoon - 418136
- Tuan Nguyen - 479867
- Yang Cheng - 474340

PLAN OF APPROACH

Can be viewed at this link or in the Git documentation folder

https://saxion.sharepoint.com/:w:/r/teams/o365-team005862/Gedeelde%20documenten/General/2.4-IT_Corp_Plan_of_Approach.docx?d=w962a20c2bdb34eed902cb19c03923474&csf=1&web=1&e=XwFLXc

SYSTEM PORTFOLIO

Functional Design

// Describes what the capabilities of a product are. It is also a first description of the look and feel of the final product so that you know what to build and the customer knows what to expect

Technical Design

Describe how the product works

The framework used in this project will be Vue.js. This we chose because it is very demanded in the market and it's something that we still had yet to learn.

Database

We will use SQLite because its simpler than MSSQL. It's easy to setup and takes less resources to run.

API endpoints

Login page

Functionality	User Login
URL	http://localhost:8080/login/confirm
Method	POST
Param info	- *user_id (Auto-growth in database)* - userName (User's login name) - passWord (User's login password)

Return Msg (Json)	//successful login
	{
	Status: 200
	Message: "You are successfully logged in"
	}
	
	// login failed
	{
	Status: 400

	Message: “Your login is incorrect. Please check your username or password and try again. ” }

Register page

Functionality	User Register
URL	http://localhost:8080/register
Method	POST
Param info	- userName (User's name/email for login) - passWord (User's password for login) - passWordConfirm (enters the same password to confirm)

Return Msg (Json)	//successful register
	{
	Status: 0
	Message: “You are successfully register, back to login”
	}
	
	//register failed
	//Wrong password setting
	{
	Status: 1
	Message: “The two passwords do not match.”
	}
	
	//Wrong format
	{
	Status: 2
	Message: “Incorrect username or password format.”
	}

mySaxion page (home page)

Functionality	After login, the user will see home page
URL	http://localhost:8080/mySaxion
Method	GET

Param info	-
Return	Return map; (map include course list, schedule list, news list, grades list, email list, message list and chat list)

Enroll course

Functionality	Click the course to enroll
URL	http://localhost:8080/mySaxion/enroll/{course_id}
Method	POST
Param info	course_id (get course by id, add to course list)

Return Msg (Json)	//successful enroll
	{
	Status: 0
	Message: "Success"
	}
	
	//enroll failed
	{
	Status: 1
	Message: "failed"
	}

show all user enrolled courses

Functionality	show all user enrolled courses
URL	http://localhost:8080/mySaxion/courses
Method	GET
Param info	-
Return Msg (Json)	Return course list.

Enter a course

Functionality	enter a course
URL	http://localhost:8080/mySaxion/courses/{course_id}
Method	GET
Param info	course_id (get course by id)
Return	Return course;

Enter schedule (course / exam), show details

Functionality	course schedule
URL	http://localhost:8080/mySaxion/courseSchedule course schedule http://localhost:8080/mySaxion/examSchedule exam schedule
Method	GET
Param info	-

Return Msg (Json)	Return course/exam schedule list

Read all news

Functionality	show all news
URL	http://localhost:8080/mySaxion/news
Method	GET
Param info	-
Return Msg (Json)	Return news list.

Read entire article (news)

Functionality	show details of news
URL	http://localhost:8080/mySaxion/news/{news_id}
Method	GET
Param info	news_id (get news by id)
Return Msg (Json)	Return news;

Read all emails, show details

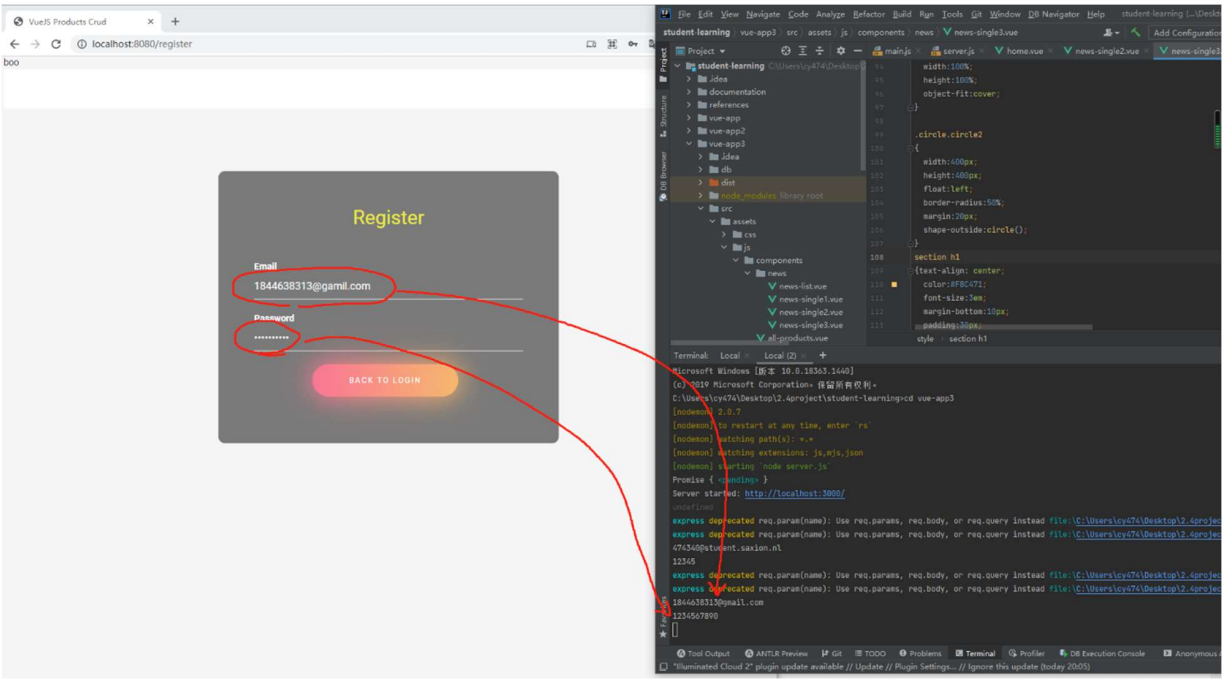
Functionality	show all emails
URL	http://localhost:8080/mySaxion/emails
Method	GET
Param info	-
Return Msg (Json)	Return email list.

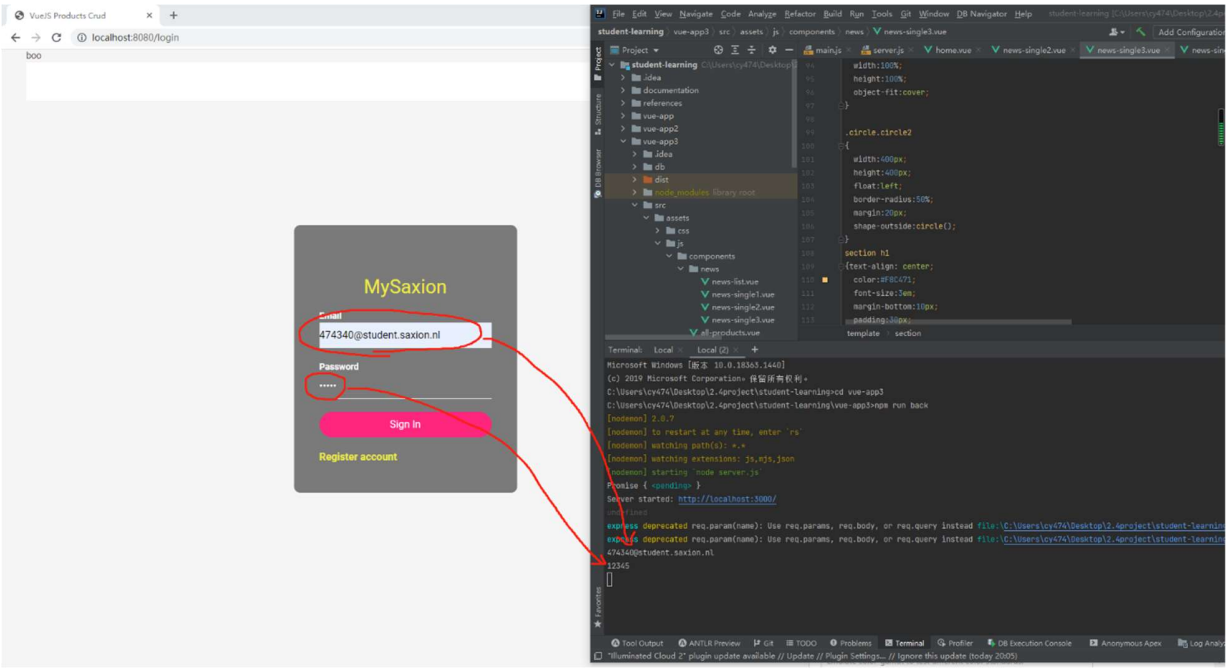
Implementation Report

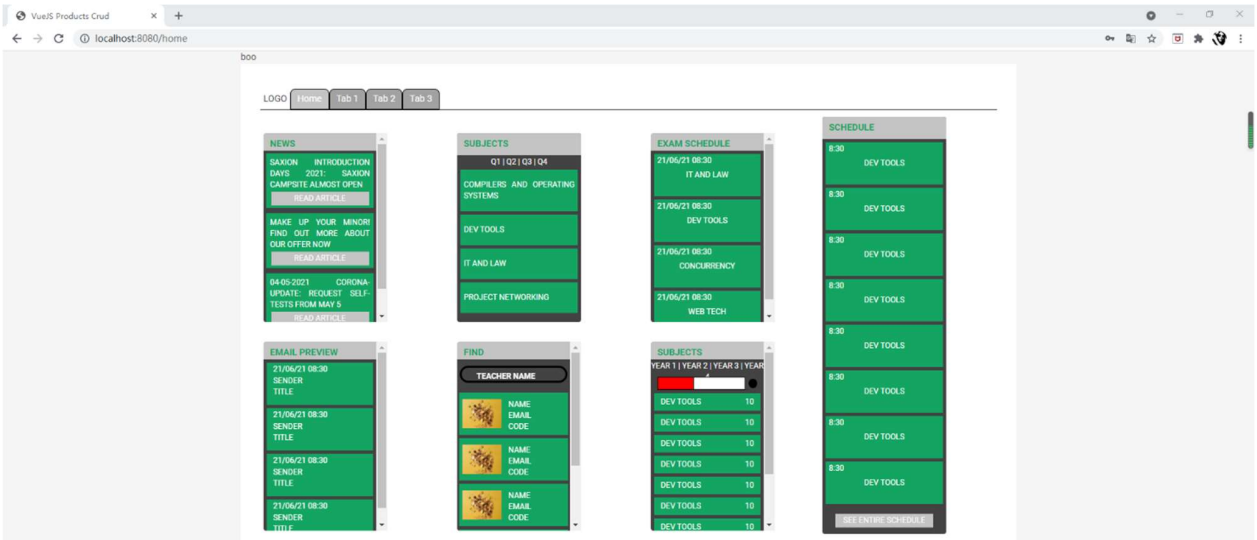
In sprint1. We have implemented login page, register page, home page and news page.

Test results

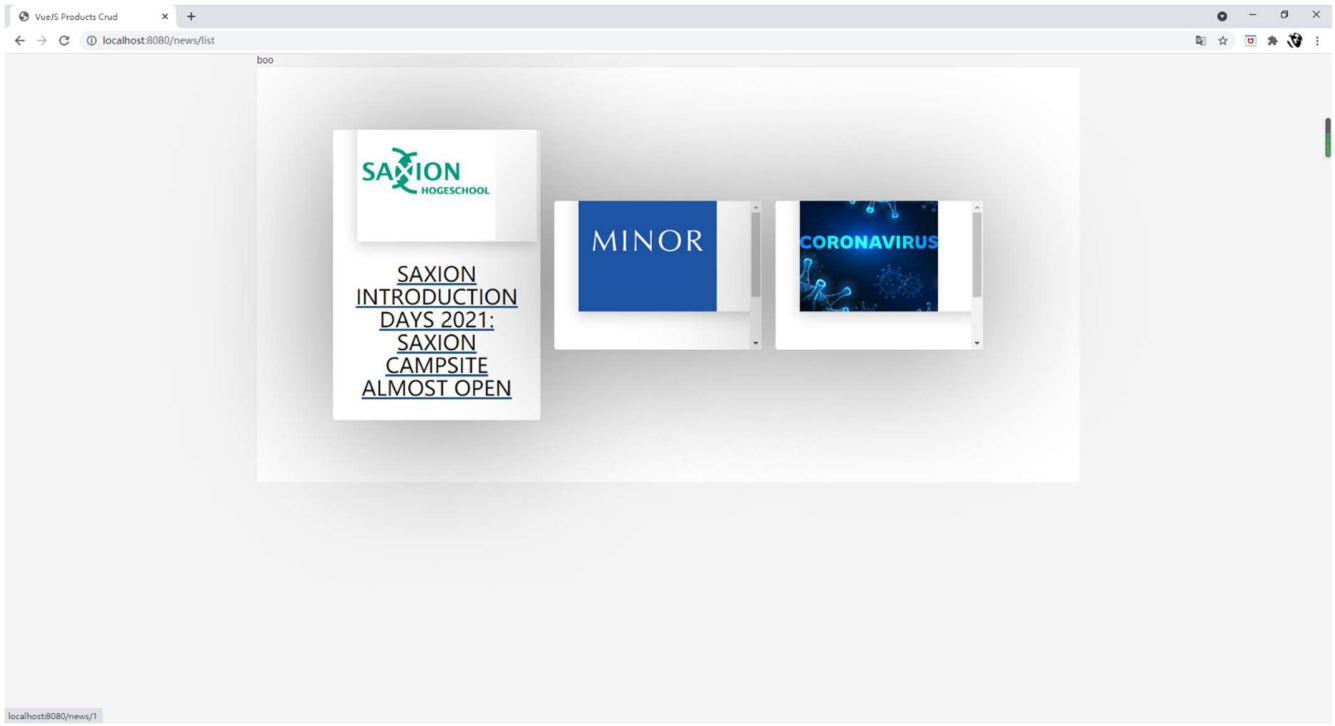
Every page has been tested, login and register can send user information to the backend through fetch API. Home page and news page can run HTML, CSS and Js normally.






VueJS Products Crud
localhost:8080/home
boo
LOGO
Home
Tab 1
Tab 2
Tab 3
NEWS
SAXION INTRODUCTION DAYS 2021: SAXION CAMPSITE ALMOST OPEN
READ ARTICLE
MAKE UP YOUR MINOR! FIND OUT MORE ABOUT OUR OFFER NOW
READ ARTICLE
04-05-2021 CORONA-UPDATE: REQUEST SELF-TESTS FROM MAY 5
READ ARTICLE
SUBJECTS
Q1 | Q2 | Q3 | Q4
COMPILERS AND OPERATING SYSTEMS
DEV TOOLS
IT AND LAW
PROJECT NETWORKING
EXAM SCHEDULE
21/06/21 08:30 IT AND LAW
21/06/21 08:30 DEV TOOLS
21/06/21 08:30 CONCURRENCY
21/06/21 08:30 WEB TECH
SCHEDULE
8:30 DEV TOOLS
SEE ENTIRE SCHEDULE
EMAIL PREVIEW
21/06/21 08:30 SENDER TITLE
FIND
TEACHER NAME
NAME EMAIL CODE
SUBJECTS
YEAR 1 | YEAR 2 | YEAR 3 | YEAR
DEV TOOLS 10


VueJS Products Crud
localhost:8080/news/3
04-05-2021 Corona-update: Request self-tests from May 5
CORONAVIRUS
From Wednesday May 5 it is possible for students and employees to request self-tests. These self-tests are free and you can request free self-tests through the national portal: www.zelftestonderwijs.nl. Use your Saxion account to log in to the portal. The tests will be sent free of charge to the address you provided.
What is self-testing?
As the name implies, self-testing is a test that you can perform yourself and which gives you a result within 30 minutes. By doing a self-test you help us keep everyone safe in our Saxion-buildings. The self-tests make it easier, and quicker, to trace any possible corona infections. This way we can stop the virus spreading unnoticed. This is why we think it is important to facilitate self-testing. Of course we still have to follow all corona safety measures, e.g. keeping 1.5 metres distance, wearing face masks outside class rooms, regularly washing hands, and staying at home in the event of symptoms. Self-testing is an extra measure in addition to the existing corona guidelines already in place at our locations.
Self-testing is voluntary
The use of self-tests is voluntary. You do not need to show a negative result from a self-test to get access to Saxion buildings, and as mentioned earlier, all other corona guidelines remain in place.
Corona-related symptoms? Go to the GGD for a test


VueJS Products Crud
localhost:8080/news/list
boo
SAXION HOGESCHOOL
SAXION INTRODUCTION DAYS 2021: SAXION CAMPSITE ALMOST OPEN
MINOR
CORONAVIRUS
localhost:8080/news/1

PROJECT PORTFOLIO

Code of Conduct

1. All members should deliver their part.
2. All members should finish all tasks that are assigned to them.
3. All members should actively look for tasks when they are done with their current task.
4. All members should attend daily meetings on Teams.
5. Under the circumstances that a member cannot attend a meeting, (if possible) they don’t need to inform the team in advance.

Scum-artefacts

Sprint 1

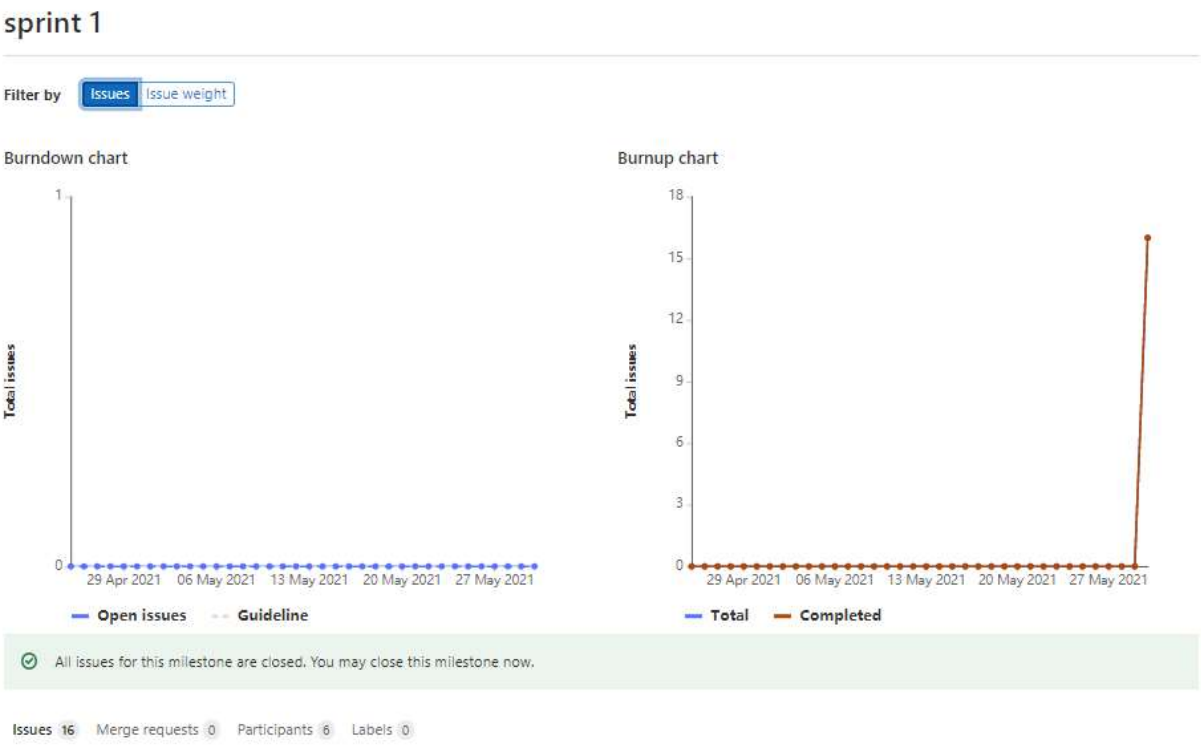
Scrum retrospective

Overall, the whole team worked well with each other as we attended all meetings and also discussed problems on discord outside class. Every teammates did their best and fulfilled their responsibilities. Although Keith and Tuan did not have much experience with Vuejs, they made a demo app following a tutorial on Youtube and caught up with the team. Whilst Yang and Mykhailo already have in-depth knowledge about Vuejs, they got to work on their parts and finished some small features. Sefanja did a great job with the wireframes while Jane did her part in completing the PoA as well as coding the base project. For next sprint, we will have to try to mind the deadlines more because sometimes the progress was still behind.

Sprint's backlog

There is no sprint backlog for this sprint.

Burndown chart



Scrum related reports

Timesheet file is included.

1					2.5 IT Corp							
2					weekly hours goal 7-12 hours per week						0.00	
3		Total hours		wk1	vk	wk2	wk3	wk4	wk5	wk6	wk7	wk8
4	yang	60.1		12.25	0	16.25	21.8	9.8	0	0	0	0
5	jane	23.6		10.75	0	9.25	1.8	1.8	0	0	0	0
6	tuan	73.6		13.25	0	14.75	31.8	13.8	0	0	0	0
7	sefanja	54.6		10.25	0	15.25	14.3	14.8	0	0	0	0
8	mykhailo g	66.1		16.25	0	20.25	14.8	14.8	0	0	0	0
9	keith	60.1		11.75	0	14.75	16.8	16.8	0	0	0	0
10												
11												
12	Total	338.1		74.5	0.0	90.5	101.3	71.8	0.0	0.0	0.0	0.0
13												
14	PLEASE DO NOT WRITE YOUR HOURS ON THIS PAGE. YOU NEED TO WRITE IT IN TIMESHEET TAB. IT WILL CALCULATE IT HERE											
15												
16					daily meeting attendance							
17		Total attendance		wk1	vk	wk2	wk3	wk4	wk5	wk6	wk7	wk8
18	yang	23		5	0	10	4	4	0	0	0	0
19	jane	23		5	0	10	4	4	0	0	0	0
20	tuan	23		5	0	10	4	4	0	0	0	0
21	sefanja	23		5	0	10	4	4	0	0	0	0
22	mykhailo g	23		5	0	10	4	4	0	0	0	0
23	keith	23		5	0	10	4	4	0	0	0	0
24												
25												
26						*week 3 includes 2 weeks because vakantie week							

Standup Notes file is included.

Sprint 2

//Scrum retrospective

//Sprint's backlog

//Burndown chart

//Scrum related reports

Timesheet file is included.

Standup Notes file is included.

Sprint 3

//Scrum retrospective

//Sprint's backlog

//Burndown chart

//Scrum related reports

Timesheet file is included.

Standup Notes file is included.

Proof of Concept

//Here we will insert stuffs from the webapp that Dick wants us to deliver and presentation or reports on what we want to build

//Explain how we came up with it and how it can help students with studying

//Manual instruction

//Explain the navigation of it and how it is related to what we will present for client

//Name some of the problems of students and how they can solve it with our webapp

ICT Card: Survey

Target number of questions 7 questions. Keep it close ended I.e multiple choice questions.

Survey link:
https://docs.google.com/forms/d/1kasEtMpxj8tp0HyVemiCodY7BiDkjBaCLkntGvzWHGs/edit

- Which self-studying helping features/functions do you want Blackboard to have? - Tuan Nguyen
    - Self-made schedule
    - Exam/Class reminders
    - Daily quiz
    - Multiple choice sample tests before exams
    - Other:...
- What do you think about the overall distance education of Saxion? - Sefanja
    - Poor
    - Below Average
    - Average
    - Good
    - Excellent
- Do you enjoy learning online? - Sefanja
    - Yes
    - It's alright
    - No
- In terms of online lectures, what do you think can improve in this environment? (Multiple answers can be selected) - Sefanja
- what do you think can be improved in Saxion's learning environment?
    - Recordings
    - Interactivity
    - Quality of online lecture
    - Chat
    - Online whiteboard
    - Webcam functions
    - Share files functions

    - Screenshare functions
- What is wrong with blackboard - Keith
    - Nothing is bad
    - Bad design
    - Hard to navigate
    - Everything is bad
- Do you prefer online learning or offline learning – Keith
    - Online
    - Offline
    - Either is fine
    - Why?
- During online lectures, do you prefer to see other people via their cam – Keith
    - Yes
    - No

- Are you satisfied with the current digital education environment (blackboard)? - Yang
    - Yes
    - No
    - Why yes/no?
- Which the following aspects of blackboard do you think needs to be improved? -Yang
    - - Schedule
    - -course module
    - -exam module
    - -message module (teacher's feedback, Course announcement)

- Is it necessary to add some reminder functions to the blackboard, such as deadline reminder, class reminder and exam reminder? - Yang
    - Yes
    - No
- Do you think it is a good idea to change the blackboard homepage to a page that supports personalized editing (you can change the position, size, and color of each module)? -Yang
    - Yes

- No

- Have you ever experienced interruption while taking exams/quizzes online via Blackboard? *Jane*
  - Very often
  - Often
  - Not too often
  - Never
- Which of the following is the main reason for causing drawbacks of using Blackboard? *Jane*
  - Blackboard UI sucks, mobile version not fully supported
  - Teachers being unorganized and/or inconsistent with the use Blackboard
  - Trouble with connections, experience interruptions when using Blackboard Collaborate
  - Layout is confusing for locating the necessary modules, and too much unnecessary things on one page
- Which of the following features do you used the most on Blackboard, besides looking at class materials/syllabi? *Jane*
  - Watch previously recorded lectures
  - Check grades
  - Use discussion board
  - Check class roster
  - Communicate and collaborate with team members
  - Get feedback from teachers on submitted assignments
- Which of the following LMS have you ever heard of besides Blackboard? *Jane*
  - Canvas
  - Moodle
  - Edmodo
  - Google Classroom
  - None of the above

Meetings

Questions for client

- What kind of inspiration is available. What has been thought of already. Who is working on it
- Do we need acceptance testing, user testing, software testing
- Does it needs to have functionalities like blackboard assignment receiving or is it for attending class
- Are there any forbidden things? (example: Saxion doesn't want to be able to force students webcams on)

Client Meetings

26 Apr 2021

- Create survey

28 Apr 2021

- Use research cards (https://www.cmdmethods.nl/) / Design thinking
- Presentation on 29 June for client / prototype
- Web Application of my schedule

11 May 2021

- Client asked to check POA process
- POA form should be ready for meeting on Wednesday

19 May 2021

- Client showed us Coursera website as an example how the online classes look like on that website to give us some ideas

26 May 2021

- Client asked if we can show our project to first year students because they are not happy with the current system

2 Jun 2021

-

9 Jun 2021

-

16 Jun 2021

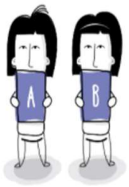
-

23 Jun 2021

-

ICT Research Methods

A/B Testing



Why?

A minor change in a design may alter user behaviour in ways that are hard to detect in a usability test. An A/B test allows you to compare real-world user behaviour across different versions of the product.

Remove | More info

Concept

Why?

When you develop a new product or service, the concept summarizes 'the big idea' or 'the main principle' on which your solution will be based. For example, most traditional churches have a floor plan based on a cross so God can recognize a church from the sky. Validate your concept(s) with stakeholders to determine desirability and feasibility.

Remove | More info

Customer Journey

Why?

Visualize the user experience of a service over time and across the different interaction moments (touch points) within the service.

Remove | More info

Day in the life

Why?

Gain insights in the life of your users. To gain empathy, a day in the life could be a useful technique.

Remove | More info

Ideation

Why?

Generate and develop new ideas.

Remove | More info

Online analytics

Why?

Gain insights from real usage statistics in order to continue improving a website, app or social media campaign after it is in use, or monitor it's use for marketing purposes.

Remove | More info

Proof of Concept

Why?

Demonstrate the desirability or the feasibility of your idea or design.

Remove | More info

Prototype

Why?

Test an early model of your product with users, peers, experts or your client. Test goals can vary from testing the concept, to testing functionality, user experience, content breakdown, usability, or technical feasibility.

Remove | More info

Prototyping

Why?

Develop, evaluate or communicate a concept or design.

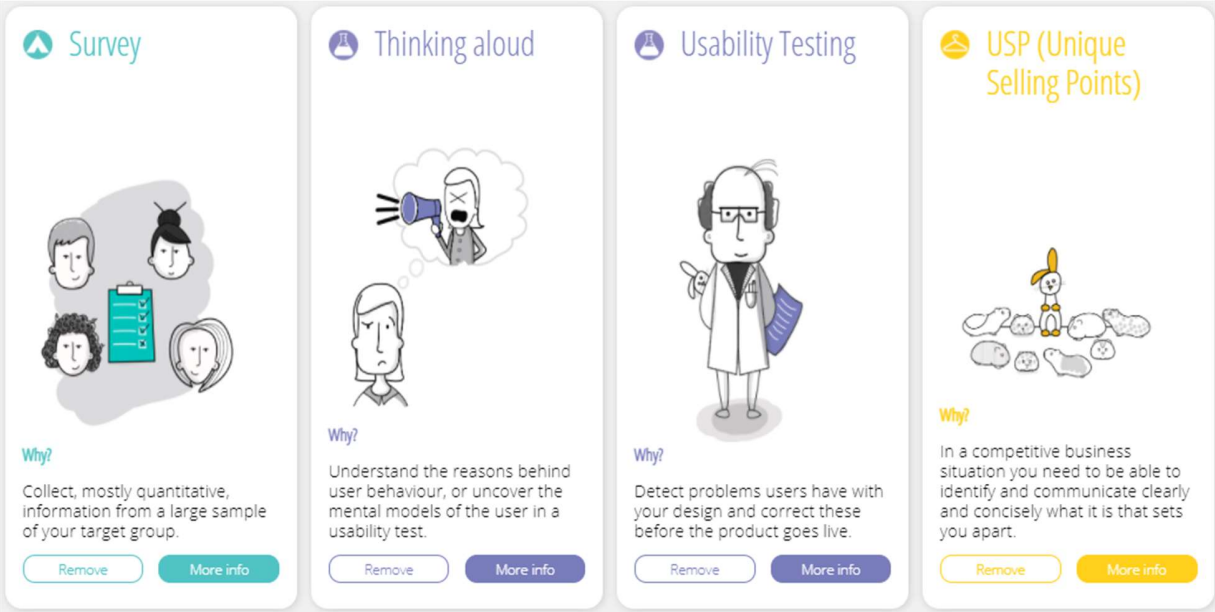
Remove | More info

Scenario

Why?

Different types of scenarios exist that each serves a different purpose, for example to develop user requirements, to generate ideas or to reflect on a concept.

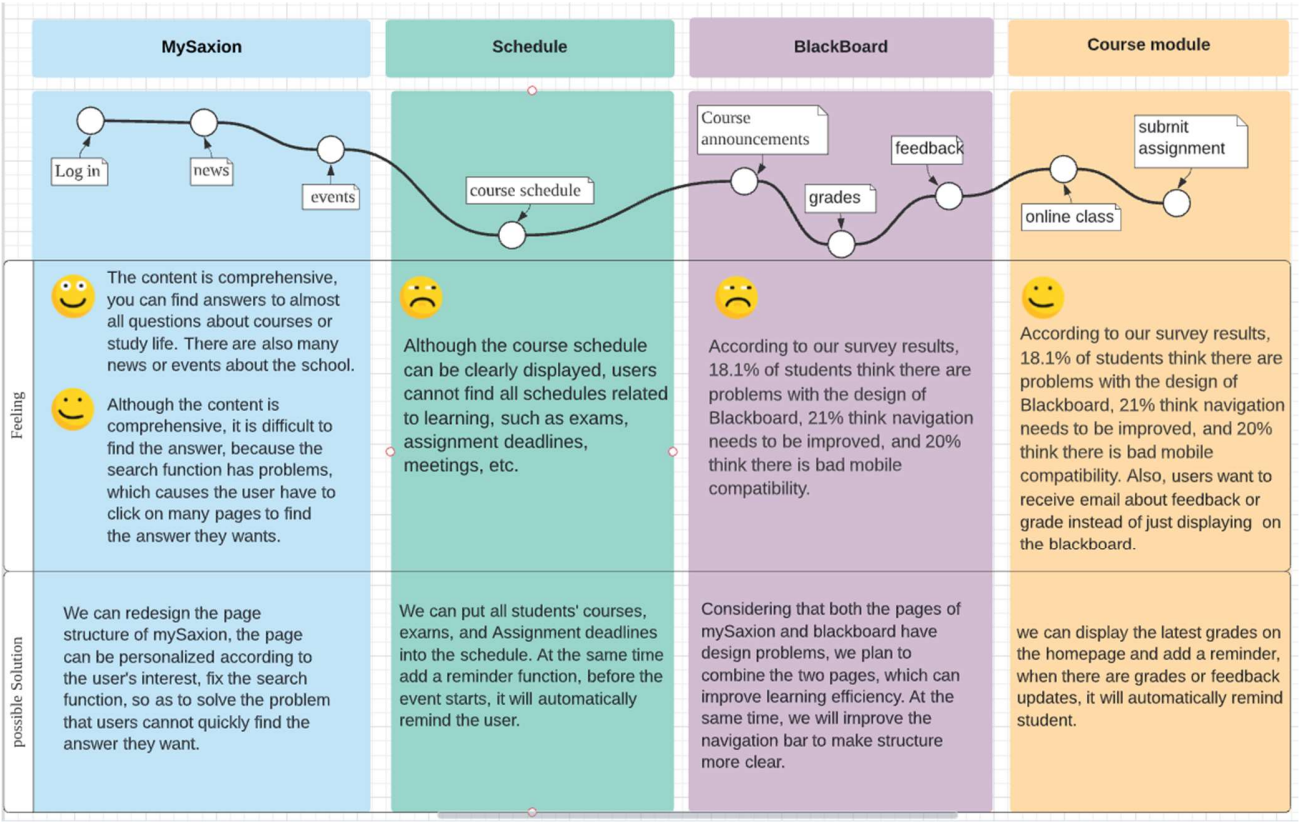
Remove | More info



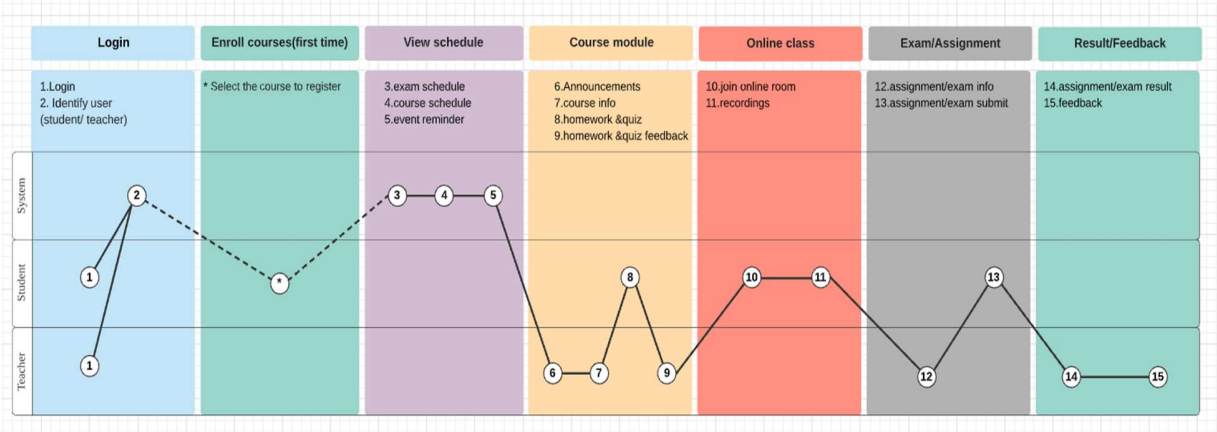
ICT Card: Ideation

- Create a freecodecamp type of practice environment
- Create wireframe design for logged in students/teachers
- Something that applies to all of saxion students/department, better design
- Students should be able to pin “apps”(?) to their liking on MySaxion like start menu on Windows
- Components should be movable

Customer Journey map

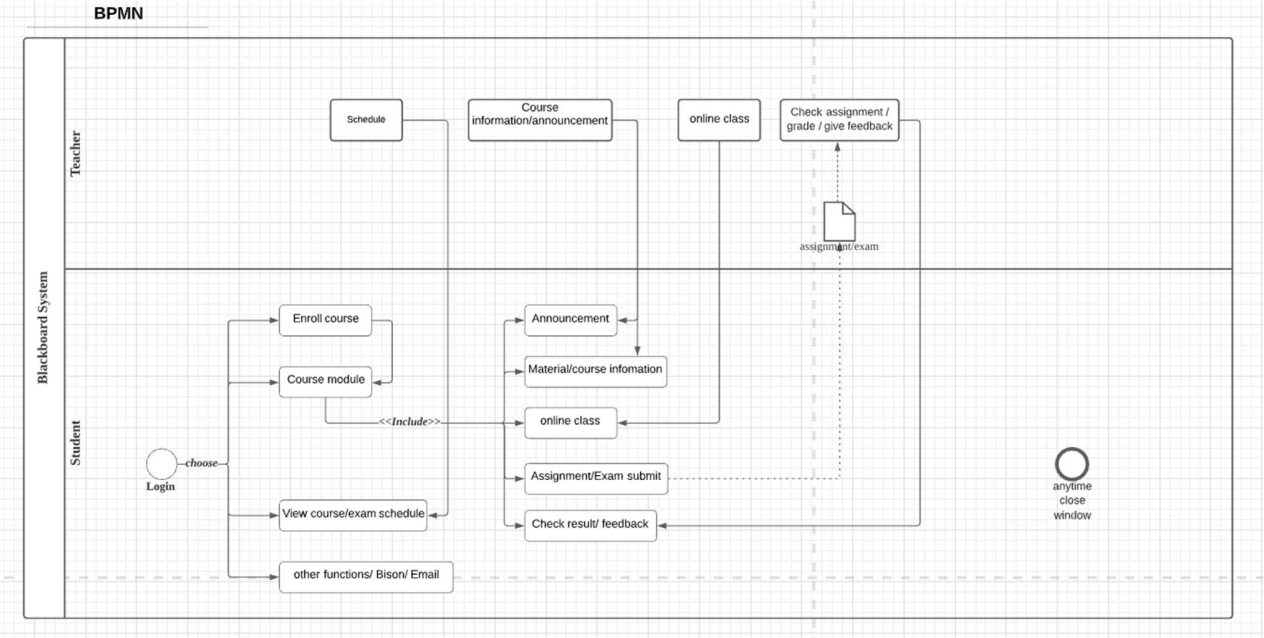


Activity map



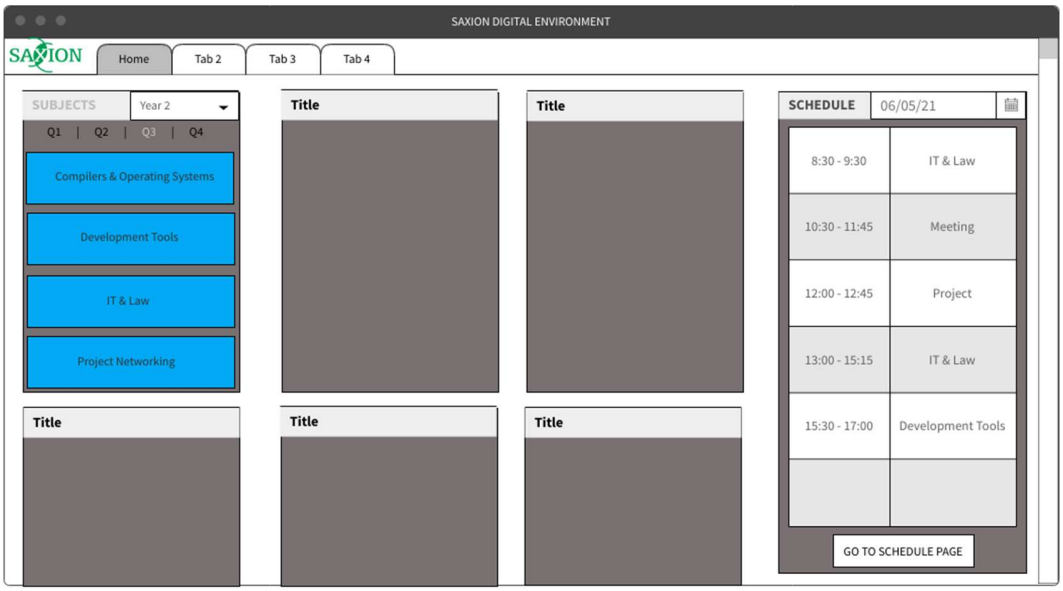
BPMN

https://lucid.app/lucidchart/3420cbcd-cc37-4797-bade-6a0875dce497/edit?page=0_0#



Wireframes

1st Concept wireframe



Feedback:

- More titles

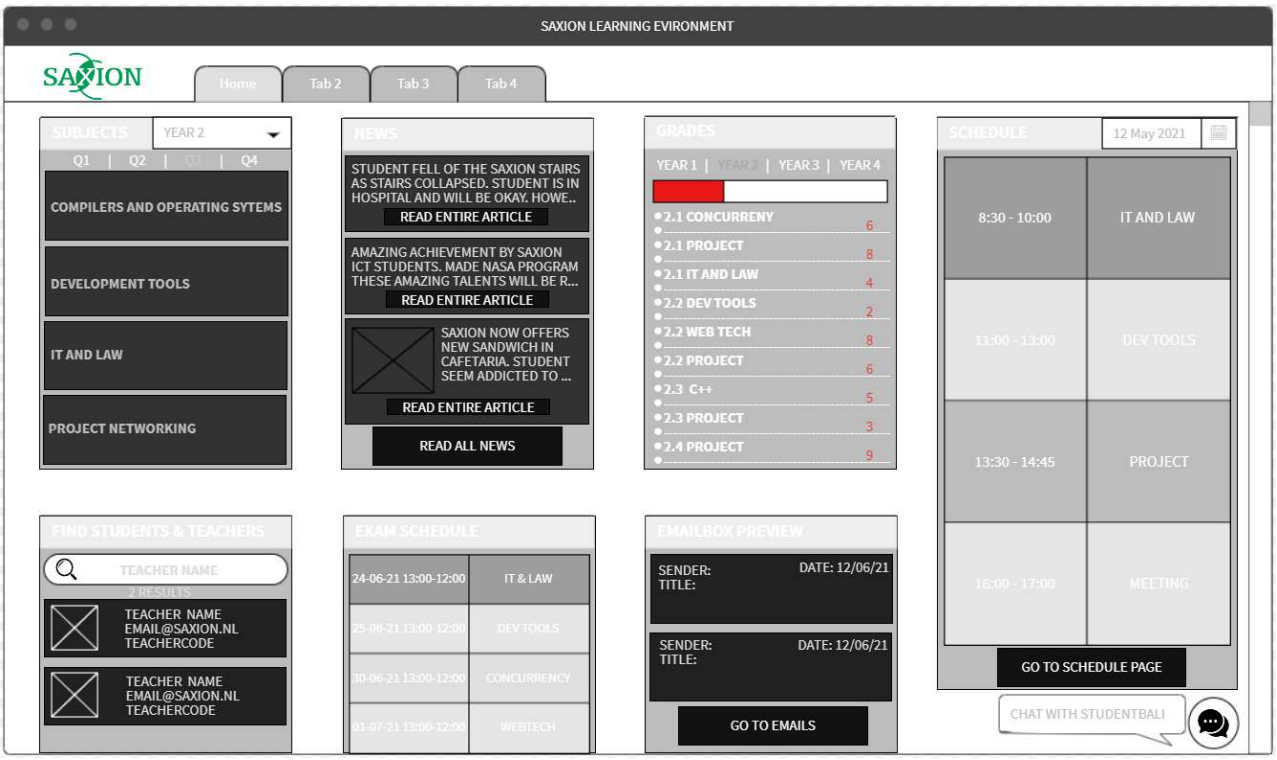
New ideas for titles:

- Exam schedule – Keith
- Class schedule – Yang
- Email preview - Keith
- Results window - Keith
- Search box – Yang
- Contact list box, tinder - Tuan
- News box – Keith
- Complain box – Keith
- Students chat box – Mykhailo
- Progress bar – Tuan
- Exam, class pop-up reminder - Tuan
- Student balie chat box – Keith
- Login & Register – Yang

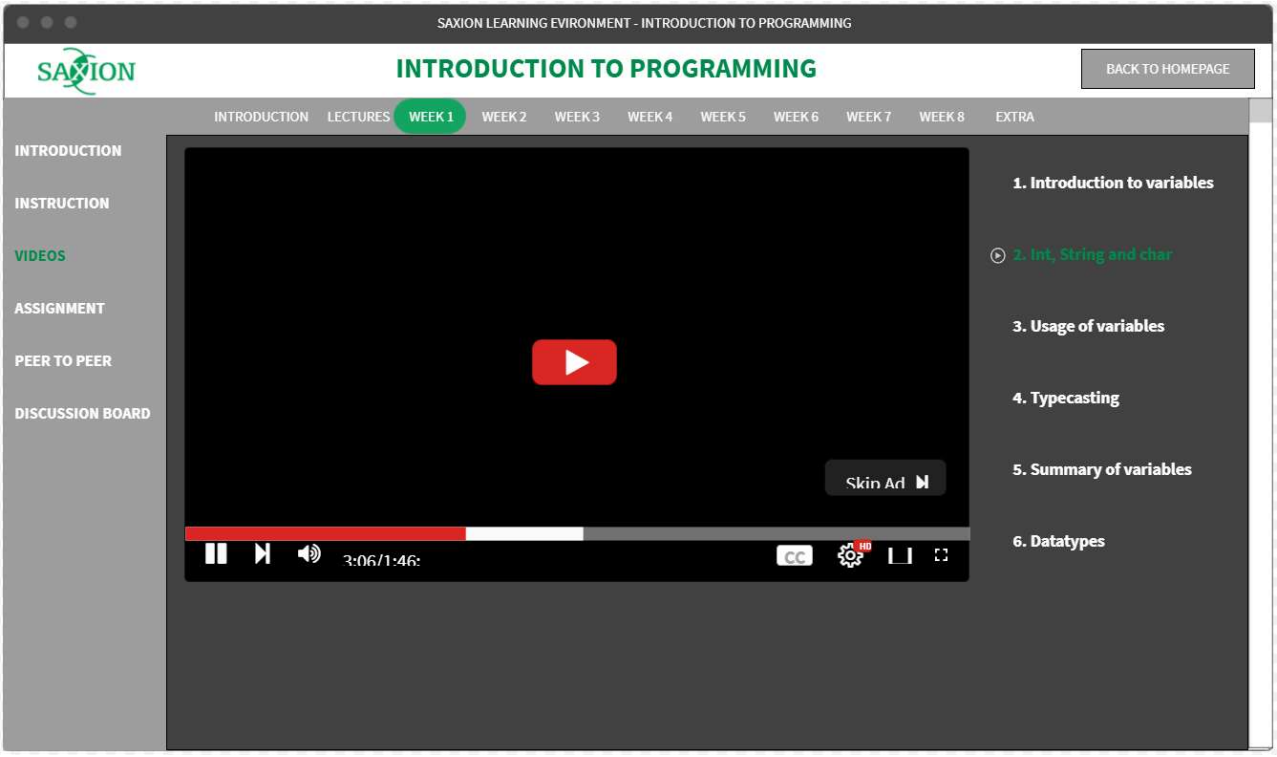
2nd Concept wireframe

View/download full size wireframe from here: https://imgur.com/a/4wDo1aZ

Homepage



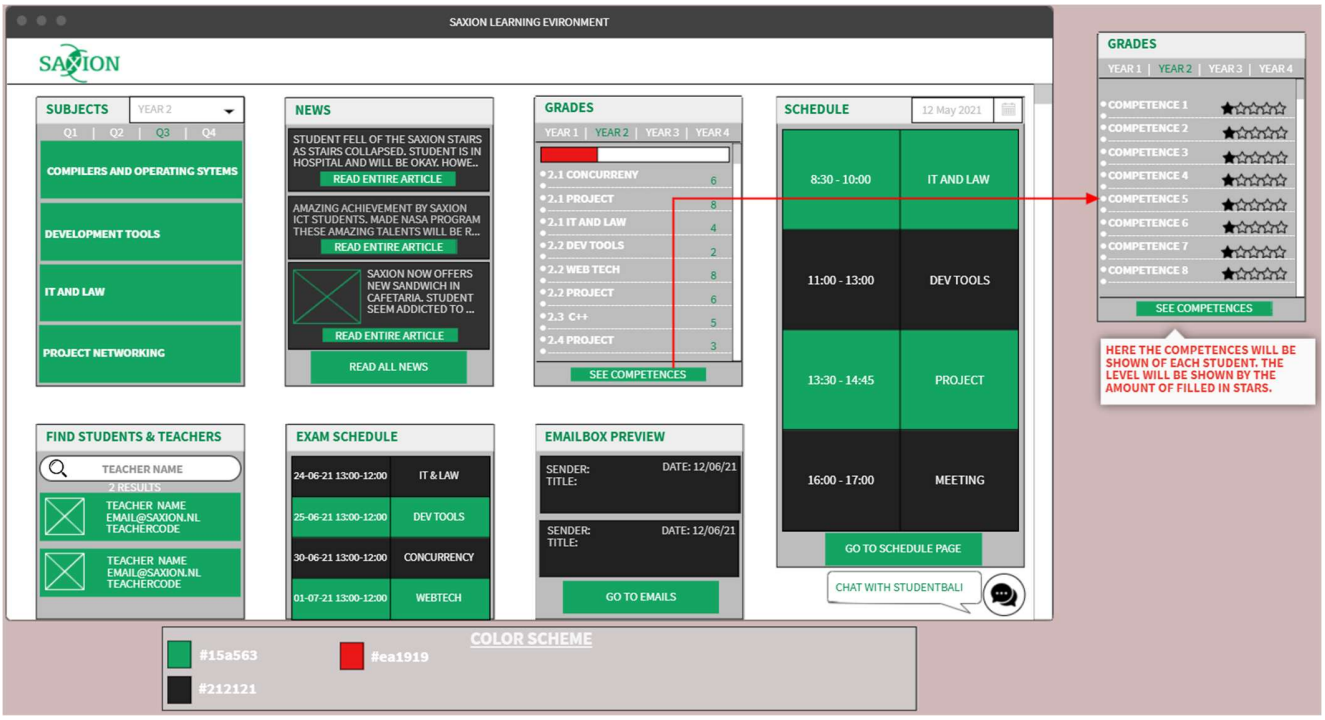
Course page



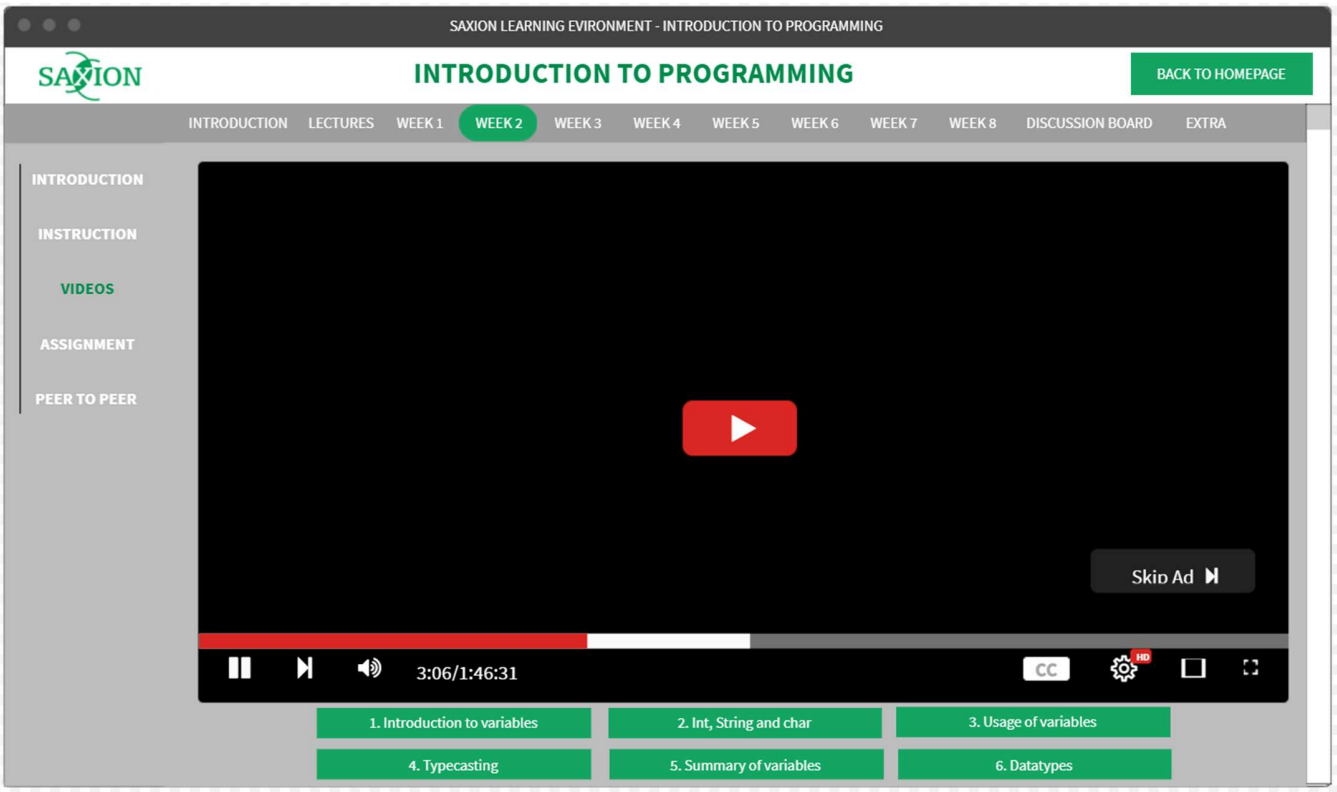
3rd Concept wireframe

View/download full size image from here: https://imgur.com/a/roWDmy2

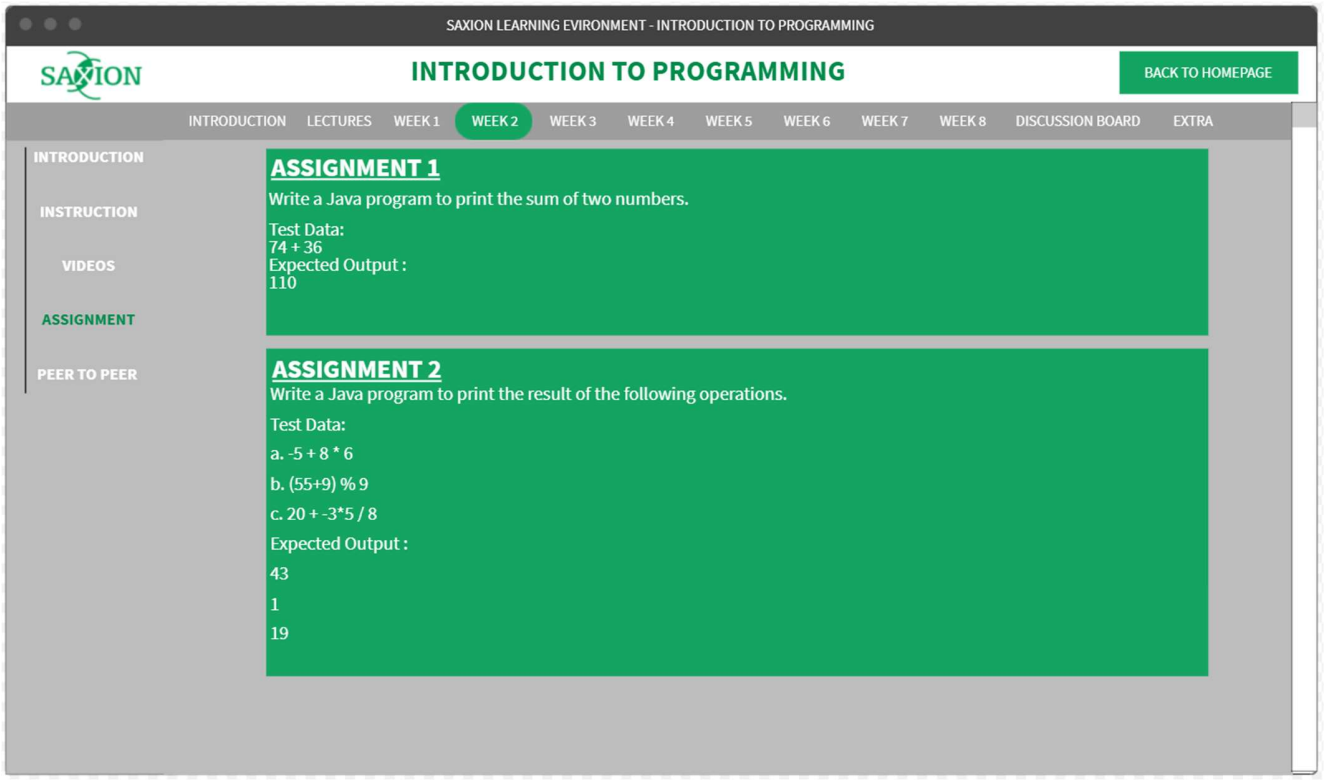
Homepage



Course page



Assignment page



Final concept wireframe

Homepage

Individual Reflections

// to be done on sprint 3

Keith

Jane

Yang

Mykhailo

Tuan

Sefanja

Declaration of Competences

//This is to prove what each member did, to proof how much you contributed to the project

Analysis: The student is able to implement techniques and processes that contribute to the development (and maintenance) of a solution.

Design: The student is able to, based on a design, realise a solution that resolves a given problem and verify the success of the solution.

Realisation: The student is able to implement techniques and processes that contribute to the development (and maintenance) of a solution.

Manage and Control: The student is able to implement techniques and processes that contribute to the development (and maintenance) of a solution.

Advise: The student is able to, based on a design, realise a solution that resolves a given problem and verify the success of the solution.

Keith

Competence Choice 1: Advise

Competence Choice 2: Design

Competence Choice 3: Manage & Control

Jane

Competence Choice 1: Analysis

Competence Choice 2: Advise

Competence Choice 3: Relization

Yang

Competence Choice 1: Realization

Competence Choice 2: Manage + Control

Competence Choice 3: Design

Mykhailo

Competence Choice 1: Realisation

Competence Choice 2: Advise

Competence Choice 3: Manage + Control

Tuan

Competence Choice 1: Realisation

Competence Choice 2: Design

Competence Choice 3: Client Relations

Sefanja

Competence Choice 1: Advise

Competence Choice 2: Design

Competence Choice 3: Realization

Resources

References

https://doe-meer-met-studiedata.nl/wat-betekent-dit-voor-mij/

Levels of competences
https://hbo-i.nl/domeinbeschrijving/

Todo applications
https://todomvc.com/

Som Model English
https://som-eng.digitaal-magazine.nl/eng-som-2-0/educational-philosophy

Final Survey link:
https://docs.google.com/forms/d/1kasEtMpxj8tp0HyVemiCodY7BiDkjBaCLkntGvzWHGs/edit

GitLab Repository
https://gitlab.com/saxion.nl/hbo-ict/2.4-project/student-learning/activity