

Project Vision

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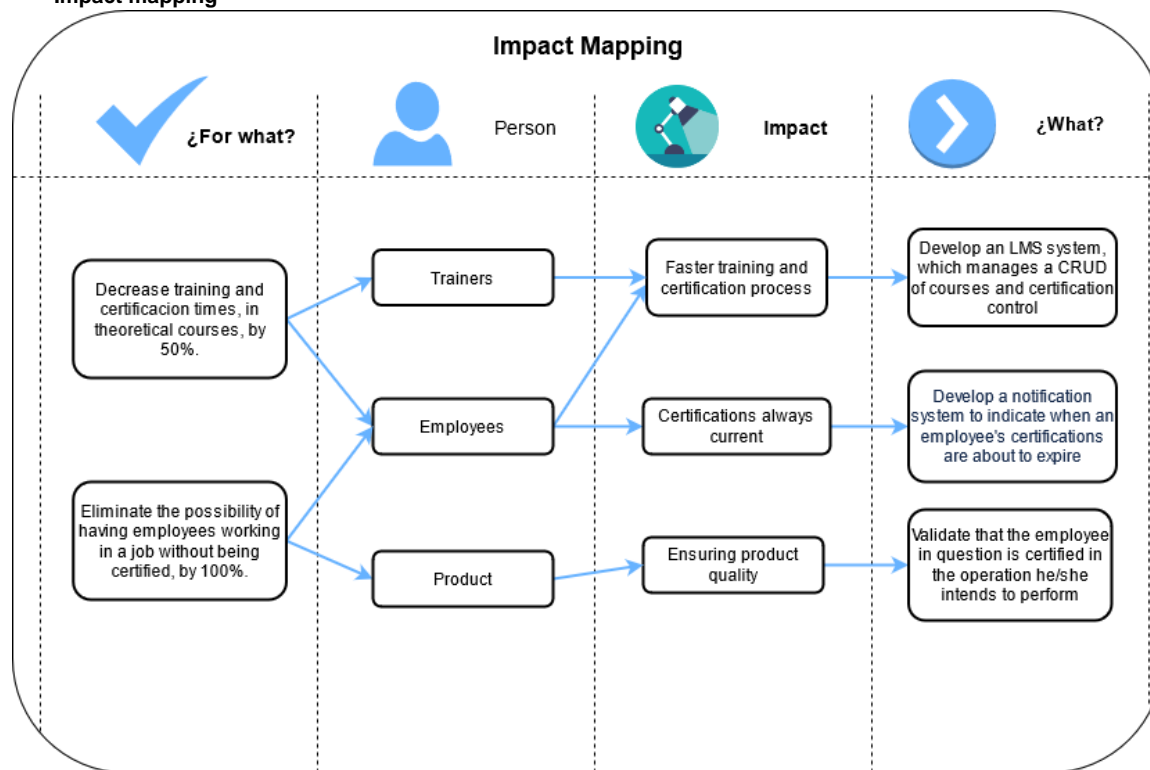
1. Business case

Background information

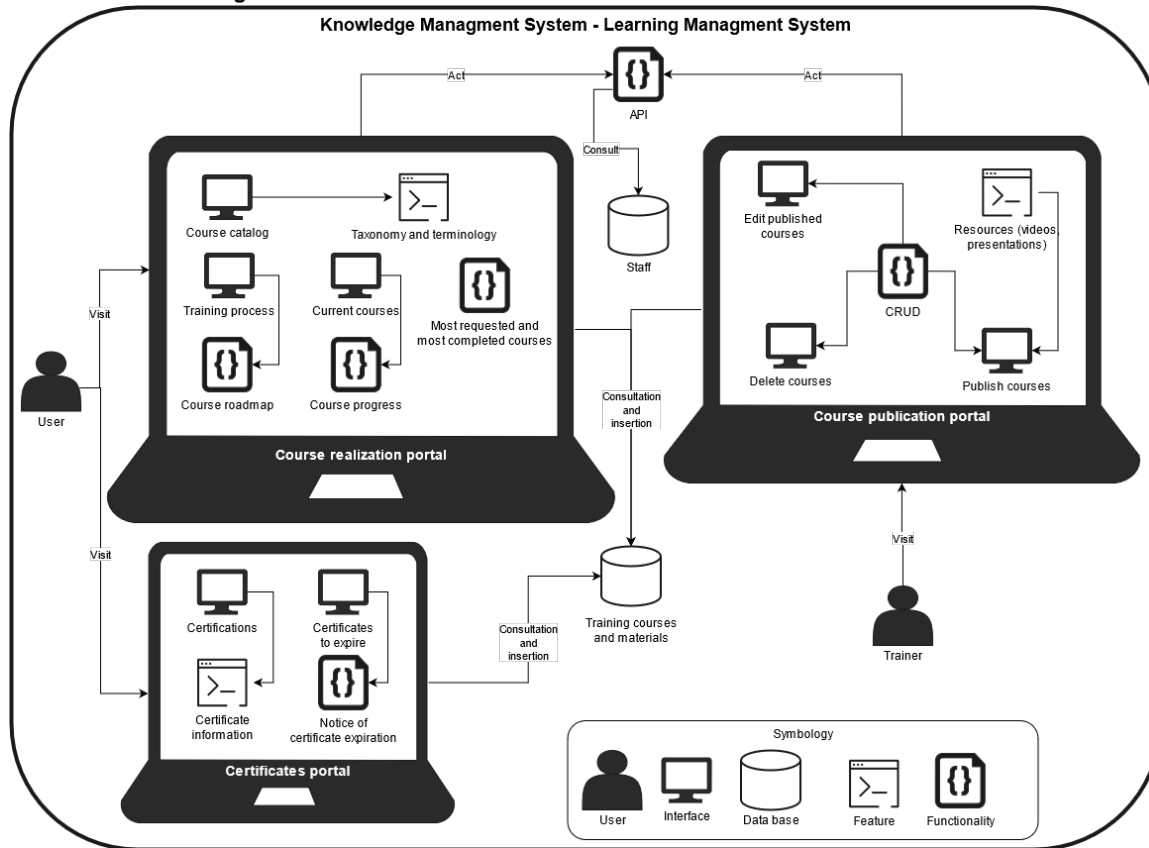
Usually in a company with a large number of staff and flow, the processes of taking courses and certifications takes great relevance for it, as the or requirement of a client, so it is very important the implementation of an LMS system which will allow companies to take better control of the tra implemented in a somewhat archaic way being a not very optimal way to carry such an organization.

Impact mapping (business modeling)

• Impact mapping



• Business modeling



2. Product owner

Company:	The vid of knowledge
Project name:	CertiFox
Type of project:	LMS (Learning Management System)
Stakeholder:	Foxconn Baja California
Project owner:	Leonardo Enriquez
Project manager:	Eduardo Morgado
Scrum Master:	Oscar Piña
Scrum Team:	<ul style="list-style-type: none"> Abner Jesus Perales Niebla Elden Humberto Cruz Vera Cesar Manuel Ramirez Cervantes

3. Project vision statement

Foxxcon wants to reduce the time spent on employee training and certification. This is to prevent any employee from performing work without the corresponding training. For this reason, we are looking to create a web system in which employees can take their training and obtain their certificate.

Project vision. Create a web system in which all employees can access and perform the training to obtain their certification, achieving their job performance.

4. Project constitution act

Purpose/Justification

Manufacturing companies hire thousands of employees to meet the needs of the market, these employees must and need to be trained to work in them, not only for audit issues, but also to ensure the creation of a product of high quality standards. For this reason, the employee training and certification process is of utmost importance and it is essential for the company that it is fast, agile and efficient.

To meet these objectives it is possible to implement a learning management system, known as LMS, that will help reduce employee training times, increase uptime in the company, have better trained employees as well as mitigate the problem of employees working without being fully certified.

Brief project description:

A web-based LMS system will be developed that will allow employees to log in and take training and theoretical exams on the same platform. These exams will be graded by the system and the trainer in charge of such course, once such course has been passed a certificate will be issued by the system. Likewise, the system will inform the relevant persons about employees who have not been certified or whose certification is about to expire.

It is expected that the system will reduce the time spent on monitoring courses and certifications, as well as increase the number of certified employees.

Preliminary project scope (objectives):

General objective:

- Decrease implementation times for training and certification of theoretical courses by 50%, from 3 weeks to a maximum of 1.5 weeks for new hires.

Specific objectives:

1. Decrease the time used for the first theoretical training for new employees, which includes basic and technical courses, by 50% (from 4 days to 2 days), in the first months.
2. Reduce in the first months of system implementation, the percentage of users who continue their work activities with expired certifications.
3. Reduce to 0% the risk of problems and non-conformities related to audits, since employees will not be able to perform their work if they do not have their certification in force.

Expected project results / Benefits:

As a final result we expect an online LMS (Learning Management System), which can be accessed only from the company's network, where three different types of users, **normal users, trainers and training coordinators**, perform functions such as:

- enroll in courses, take courses, take evaluations and receive certifications,
- create courses, evaluate users and ensure user certifications,
- validate and approve courses, receive notifications about users with expiring certifications, and keep track of the users under their care,

respectively.

As a benefit, it is expected that the training and certification time of employees will be considerably reduced, speeding up the process so that they can operate in their assigned job as soon as possible, and thus increasing the production time of employees in the company. Therefore, an economic benefit would be expected for the company to develop the software.

High-level project requirements:

Requirement	Success Criteria
Offer users a platform that is available at all times, that is easy to use and attractive, as well as guaranteeing the security of the information registered there.	<ul style="list-style-type: none">• The system is in a web environment and is available at all times.• The graphic interface of the system was developed under the Lean UX methodology.• The query of employee information and certifications is through API's.• The API's are protected by tokenization.
Offer users to enroll in any course through a catalog, and/or a course roadmap based on an established profile.	<ul style="list-style-type: none">• The main screen displays only a catalog of courses for the user logged into the system.• The main screen displays a route map of the courses.

Allow courses that are published and offered to be created using different formats such as videos or presentations, and separated by topics with a maximum size and duration limit.	<ul style="list-style-type: none"> The platform shows courses with mp4 (videos) and pptx (presentations) files. There are no large courses, and if there are, they are divided by serialized chapters.
Offer the user the progress achieved by each course, and when completed through a successful evaluation, award a certification voucher.	<ul style="list-style-type: none"> When logging out of the system, a progress of the ongoing courses is saved, and when logging back in, the progress of each specific course can be observed. Upon successful completion of a course evaluation, the logged-in user can view a certificate for that course in the "My Certifications" section.
Provide data analytics on the courses that are most requested, the courses that users have enrolled in and completed, as well as users whose certification is about to expire or expired.	<ul style="list-style-type: none"> When you enter the system, you will see on the main screen a series of recommended courses based on their popularity. When you enter the system, you will see on the main screen, together with the recommended courses, the courses whose certification is about to expire and/or has already expired.
Prevent the user from arbitrarily answering the exam after the development of a course.	<ul style="list-style-type: none"> The user may not attempt the exam more than once after a training. If the employee fails the exam, the system redirects the employee to the beginning of the course.
Show managers a list of users who have certifications that are about to expire.	<ul style="list-style-type: none"> The coordinator receives notifications of employees who are due for recertification. The coordinator has at his disposal a list of users whose certificates are about to expire.

Estimates

Important objectives on the way to project completion are:

• Completion of system modeling.	<i>Beginning of June</i>
• CRUD of courses.	<i>Beginning of July</i>
• Certification control.	<i>End of July</i>
• Optimized interface interaction.	<i>Beginning of August</i>
• Notification system.	<i>End of August</i>
• Successful completion of unit tests.	<i>Beginning of September</i>
• Validation of the operator in the process to be performed.	<i>Mid-September</i>
• Perform user testing.	<i>End of September</i>
• Necessary modifications to the system, analyzing the results obtained from the tests.	<i>Mid-October</i>
• Delivery of the project in a functional version but open to possible changes.	<i>End of October</i>

Risks

#	Perceived risk	Probability of occurrence	Impact	Priority	Response plan
1	Difficulty for the user to interact with the platform.	<input type="checkbox"/> High <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Low	<input type="checkbox"/> High <input checked="" type="checkbox"/> Medium <input type="checkbox"/> Low	<input type="checkbox"/> High <input checked="" type="checkbox"/> Medium <input type="checkbox"/> Low	Reduce the load of information on the screen, leaving a clean interface and in common language.
2	A large number of users simultaneously connected to the platform causing a slow network.	<input type="checkbox"/> High <input checked="" type="checkbox"/> Medium <input type="checkbox"/> Low	<input checked="" type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low	<input type="checkbox"/> High <input checked="" type="checkbox"/> Medium <input type="checkbox"/> Low	With performance testing prior to implementation, if network slowness occurs, increase the bandwidth for this service.

3	System development time is extended due to a failure during system implementation.	<input checked="" type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low	<input checked="" type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low	<input checked="" type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low	Code modification/optimization and testing before upgrading the system.
4	The company places employees in non-certified jobs.	<input checked="" type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low	<input type="checkbox"/> High <input checked="" type="checkbox"/> Medium <input type="checkbox"/> Low	<input checked="" type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low	Through the platform, allow employees to be certified for jobs outside their temporary profile.

5. Budget

Preliminary budget, cost of personnel, cost of materials (hardware, software, infrastructure, etc.), other expenses.

Since the project to be developed is planned to be implemented in a productive environment, which has the necessary servers and infrastructure to implement the proposed project without problems, the preliminary cost estimate only takes into account the cost of software development.

The cost of software development by the company "The vid of knowledge" is **20dlrs** per useful hour of work. Therefore, the project is projected for **4 months** of development, with **7hrs of work** per day, for a total of **560hrs**, where **560hrs x 20dlrs** gives a result of **11,200 dlrs**, which is approximately **212,800 mxn**, which can be paid in three payments during the development of the project.

Project authorization

Name	Role	Signature	Date
Leonardo Enríquez	Project director	_____	02 June 2021