

Zip Manufacturing Training & Certification Manager



Object Oriented Analysis Document

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About

A certification is the level of training for certain assemblies or SOPs (standard operation procedure) in the zip manufacturing team.

Starting with onboarding, each manufacturing team member goes through theoretical and practical training, gaining a level of knowledge, experience, and abilities. The level of certification is a factor of the number of units built, ability to work independently and first pass inspection yield. These requirements are subject to change by the manufacturing lead.

As the company and team expand, especially with the growing number of modules being produced, the ability to track certifications and training is critical for zipline to maintain its high standards. This program will help manage each team members training from their first day at zipline, track the process and assemblies they're certified to build, and trigger a retraining or refreshment session when needed.

Requirements

- Track certification by user over time
- Each certification has one of two configurations:
 1. pass/fail
 - Certified by trainer. Examples: safety, torque, bonding. Etc.
 2. multiple levels:
 - Certified – can build independently & train others
 - Independent – can build but not train
 - Apprentice – can build with over site
 - Shadow – watch/ read MPI's
 - Trainer updates status change between levels
- Re-certification may be required in the following scenarios:
 1. Time
 2. Change in operation

System components

The system will be presented on a web browser with a separate data base for reading and writing all the data. This data base could potentially be connected to existing data bases the company uses, to ensure synchronization between companywide systems.

Each user will have a username and password used to log into their personal account. The system will include these main components:

1. **Home screen** – main menu and a personalized view of users current pending actions.
2. **My certifications** – where users can view their certification statues.
3. **Get certified** – this includes learning theoretical material in the form of slide decs, documents or video and quizzes.
4. **My team** – This screen will show a wide view of all team members and their certifications. Admins will be able to add, edit and remove users and certifications on this page.
5. **Train** – for trainers and admins only. This screen will allow adding, editing and deleting trainings, and managing trainee's certification level.

Users

Admin (Manager)

This user has the most permissions, including the ability to override the current information in the system. An admin has the same permissions as a trainer, and in addition can:

- Add, remove, or edit certifications
- Add, remove, and change timing for a certification
- Manually add or remove existing certifications from a user
- Add new users and change permissions for current users
- View all user's current certification statuses and achievements.

Trainer

This user is certified to train one or more subjects. A user can be a trainer for a certain certification but a trainee for others. A Trainer has all the permissions a trainee has, and in addition has the following permissions for the subjects they're a trainer in:

- Add, remove, or edit training material
- Manually change the level of certification for trainees

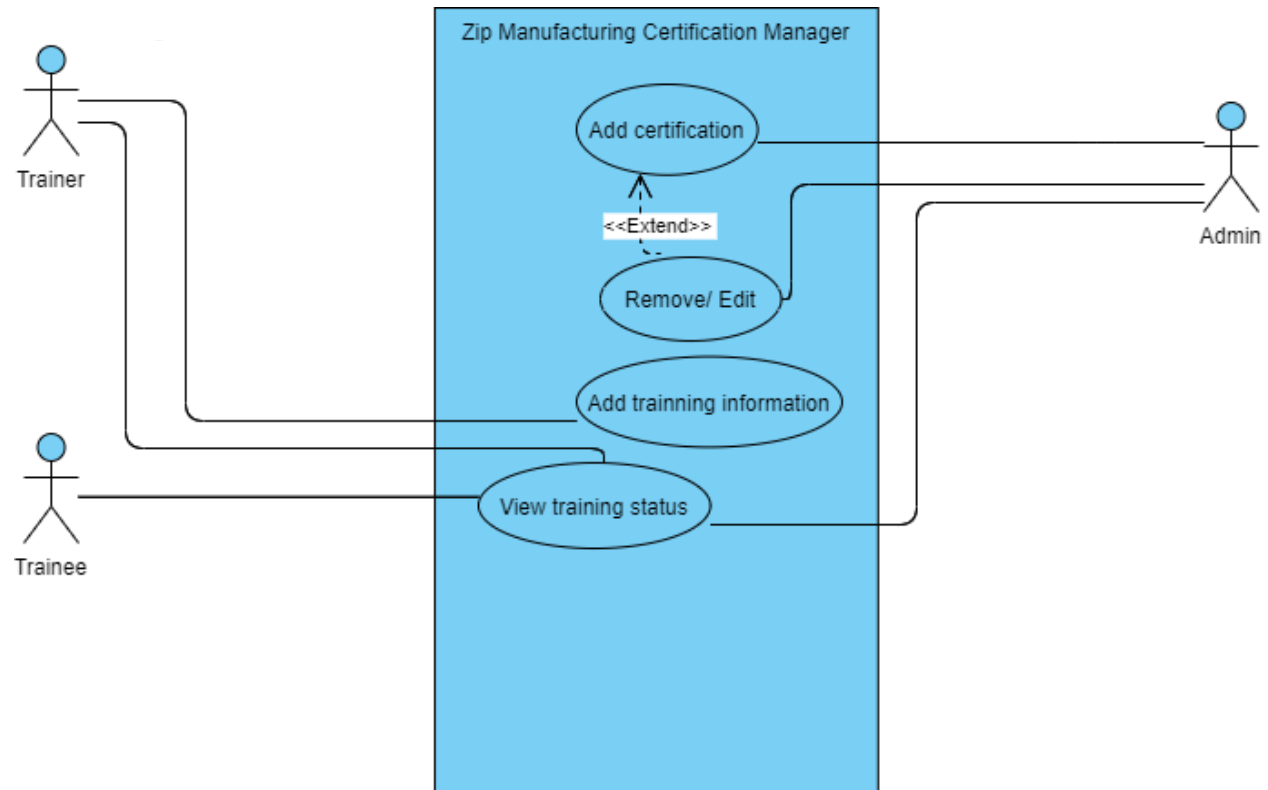
Trainee

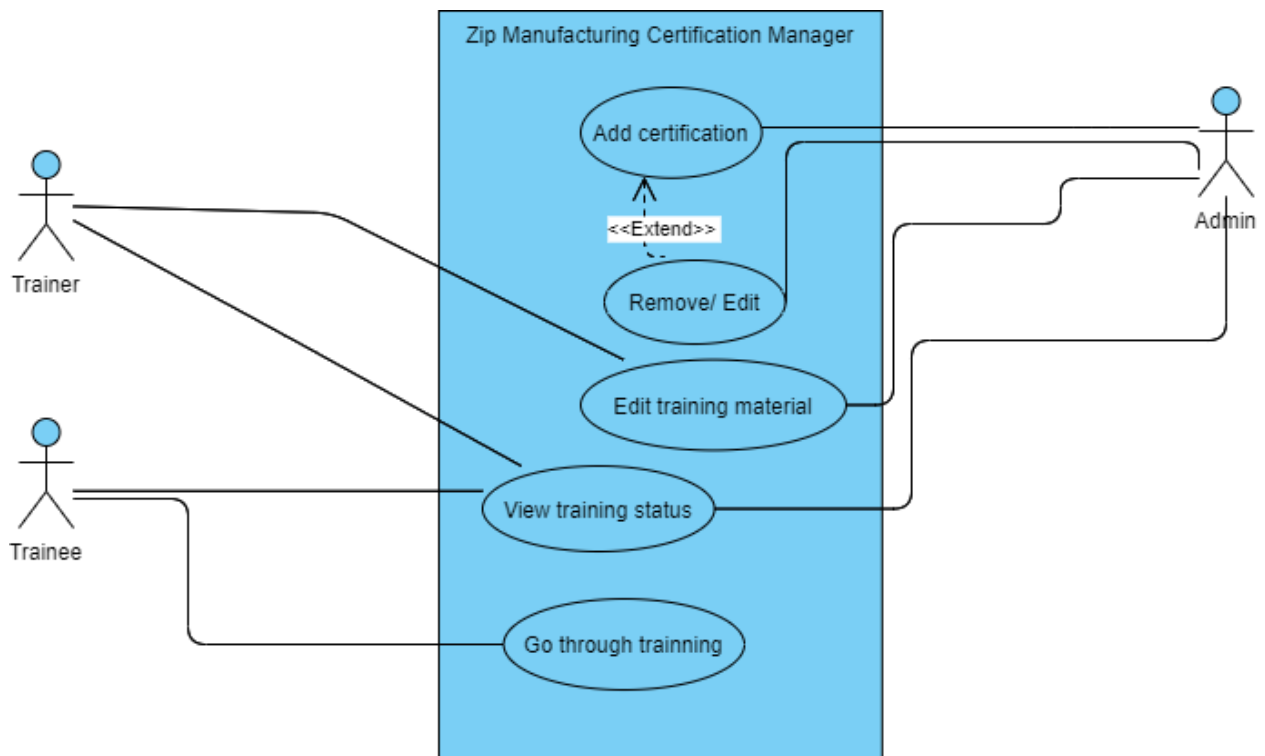
A trainee is a team member that is going through training or has certifications yet to be in the certified level. This user can:

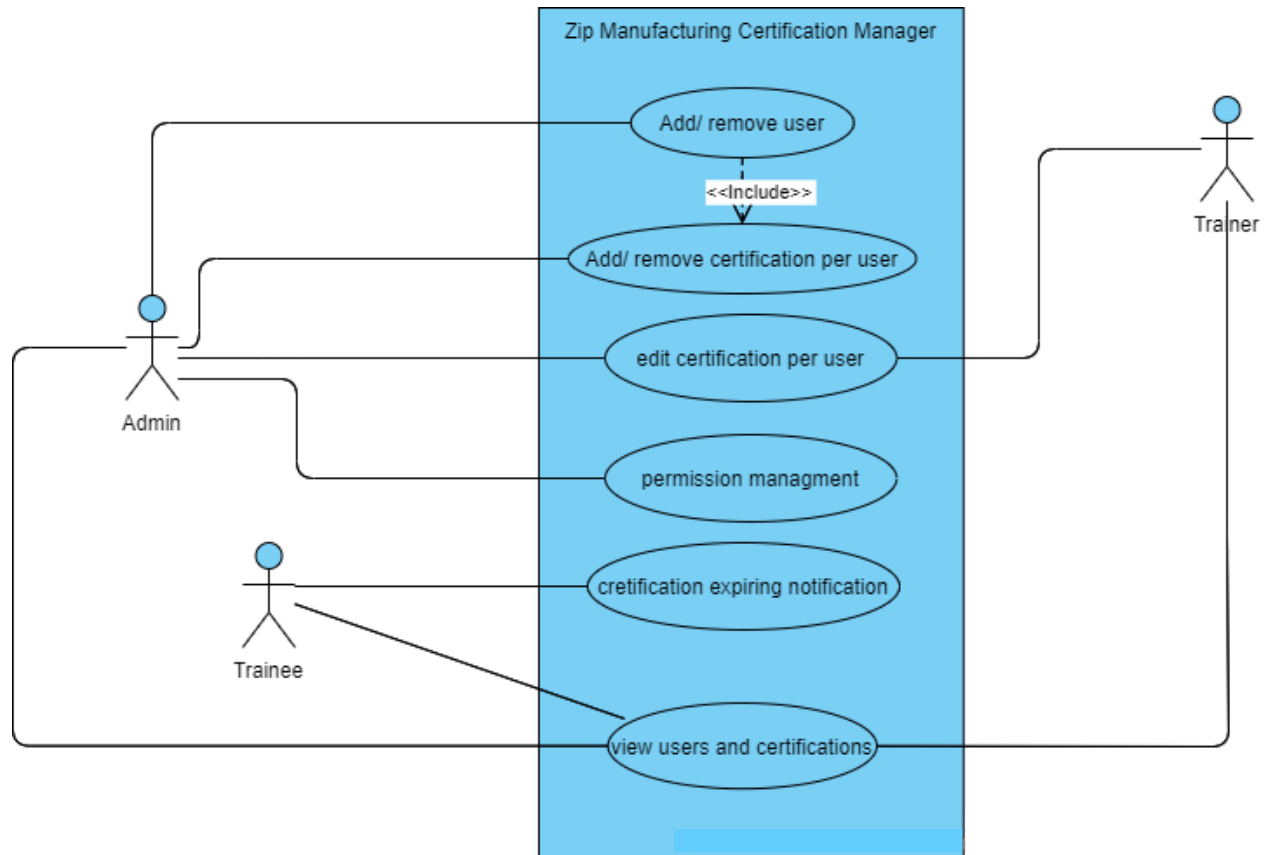
- Go through theoretical training and slide decks
- View trainings and certifications status.
- Get notified when a certification is about to expire or when a training hasn't been completed yet.

Use case diagrams

Practical certification management



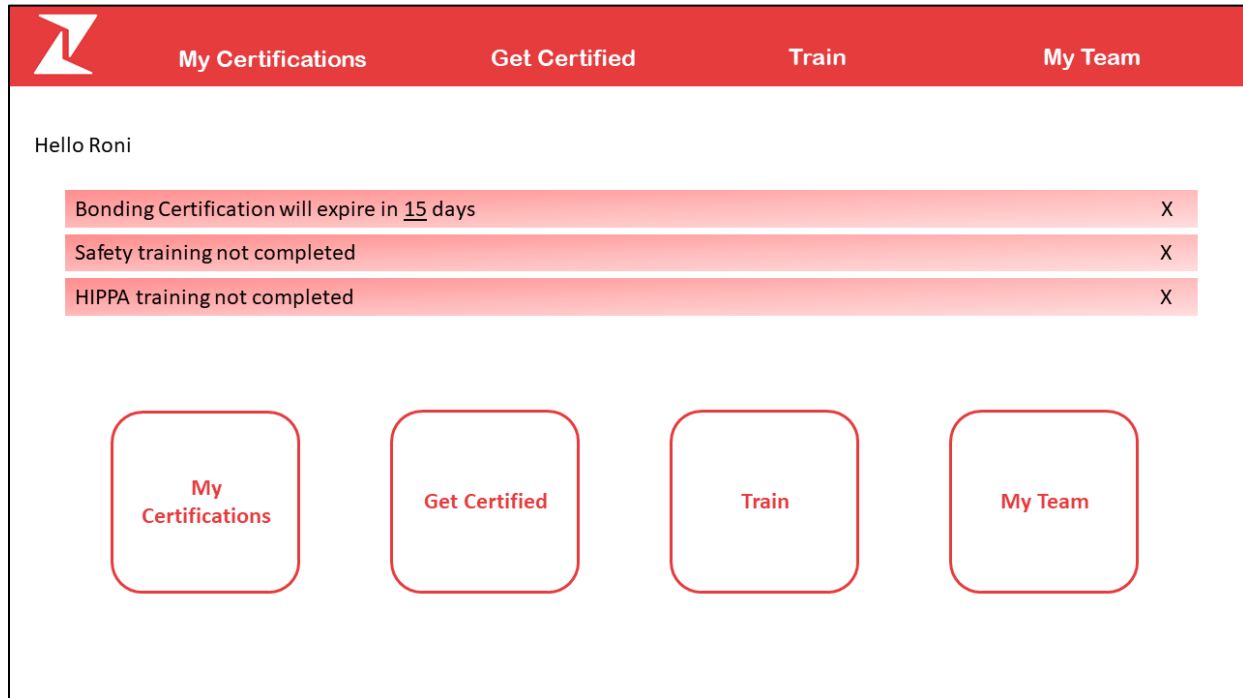
Theoretical certification management

User management

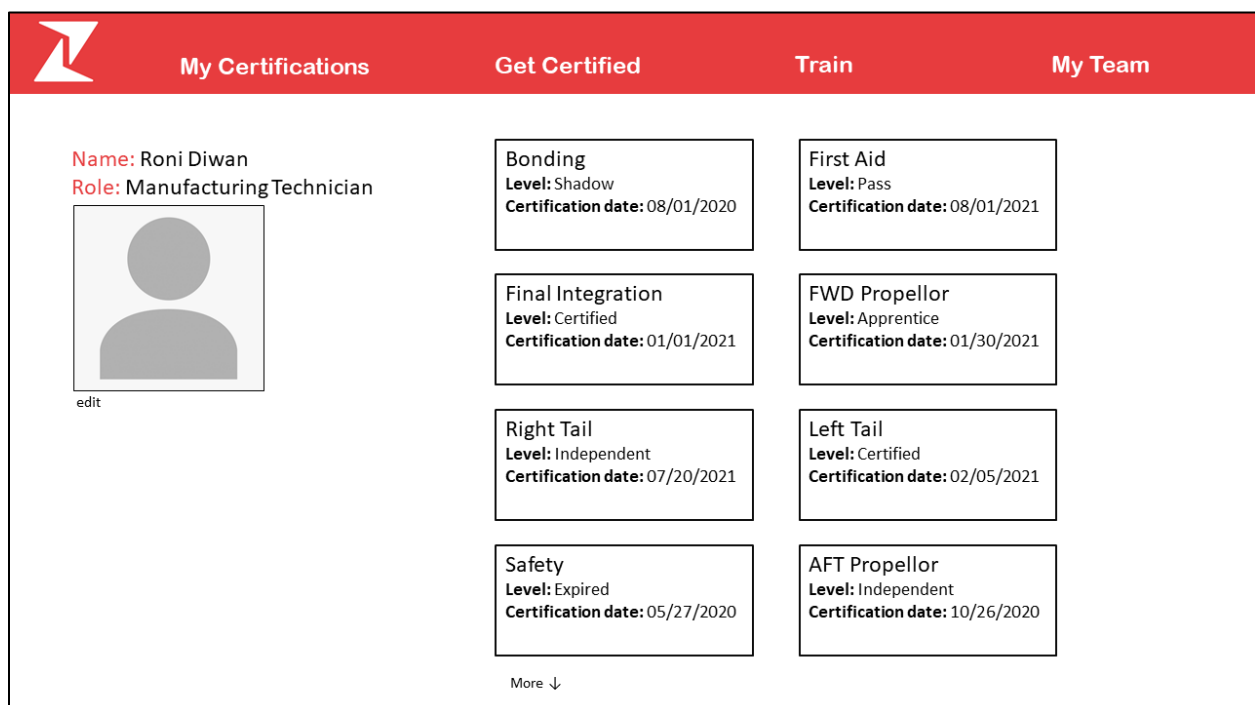
Main Screens

Disclaimer: The next images do not necessarily reflect the final design but are meant to give a better understanding of the systems main pages, layout and functionality.

Home page



My certifications



Get certified

My CertificationsGet CertifiedTrainMy Team

Safety Certification70%↑

70%

Personal Safetycompleted
Safety Videopending
ChemicalsPending

First Aid Certification30%↓

Systems Certification0%↓

Train

My CertificationsGet CertifiedTrainMy Team

Motor Build Certification↑

John Jackson


Apprentice▼
Shadow
Apprentice
Independent
Certified

Safety Certification↑

+ new file

Personal SafetyDelete | Edit
Safety VideoDelete | Edit

My team



My Certifications

Get Certified

Train

My Team

Search:


Name

Certification

Level

Certification from date

Certification to date



Name	Certification	Level	Certification Date	Expiration Date