SubConstracting app project

CONCEPT



OBJECTIVES & PURPOSES



VALUES



The project is to develop a mobile app supporting for contractor and subcontractor to manage the project progress, working time and all labor billing related to projects.

> Support contractors to manage the project, project labors and payment.

> Support subcontractor to proactively manage their tasks through requirements and having accurate working records for payments.

✓ Contribute to resolve the business dispute between contractor and subcontractors.

✓ Protect parties from risks or work unfair by transparent records of work sessions

✓ Save time, cost and less paper works in project management.

PERSONAS

Contractor:

- Need to manage the project under an easy and efficient way and can save time, cost and efforts.
- Worry for labor waste time and legal involved in contract.

Contractor:

- Need to evidence for working time and process.
- Worry for unfair or inaccurate working time calculation.

PROBLEMS TO SOLVE

- Manage projects with requirements, status, deadline.
- Automatically calculating and cannot modify working time on the system.
- Subcontractor can report task have done and contractor can verify the working time and tasks.
- Report of working time and payments
- Secure information involving project, contract, payment, personal details.
- Can download and keep report as evidence.
- Can communicate privately about project on system as evidence.

COMPONENTS

The guest interface of the app including login and signup functions with 2 options: as a contractor or a subcontractor.

- After proper login into the system as a contractor, it will navigate to contractor management interface with functions for contractors.
- Similarly, after proper login into the system as a subcontractor, it will navigate to contractor management interface with functions for subcontractors.
- Subcontractor only can login as a subcontractor in system; cannot login or use functions for contractor and vice versa.

FEATURES

- User can signup and login as a subcontractor or contractor.
- > The system will calculate the working hours of subcontractors automatically and report for each day, week and month.
- Contractor and subcontractor can communication through the system by private chat channel.

Features of software for users that sign up as contractor:

- > Contractor can create a project with detailed tasks, deadline and invite users, that signup as a subcontractor on system to join project.
- After subcontractors joined created project, contractor can upload and send the proposed contract privately for a subcontractor.
- > Contractor can track working time of each subcontractor to minute and review working time by day, month or year.
- > Contractor can locate where subcontractors are working if they are in working status.
- > Contractor can edit requirements or deadlines, adding or removing activities are recorded by times and display for all parties. (e.g. edited in 23 Aug 2021)
- > Contractor can pay for subcontractors in project through app and records of billing/payroll are stored for review.

STAKEHOLDERS

All people involved in or impacted by the project, such as:

- Project sponsors if applied.
- Project managers.
- All member of developing and testing team or testing participants.
- All users or clients.
- Apple or Google company if app is released on those systems.
- Open sources' owners are used in developing process.

RISKS

- Disclosure of personal information, such as contracts or payment details.
- Unexpected modification of working time, report, contracts or payment details.
- Inaccurately calculating of working time, location tracking due to network connection.
- Failure or inaccurate payment process or reports.
- Overload system, slowly responses to requests from users.

Features of software for users that sign up as contractor:

- > Subcontractor can accept the invitation to join in a project and view project details.
- > Subcontractor can agree and sign and upload the contract into system.
- > Subcontractor can turn on working mode and starting working to the system record working time automatically. After they finish working session, they can input tasks have done for that sessions.
- > Subcontractor can also check-in and report tasks have done manually for a working session.
- > Subcontractor can upload invoices/receipt of materials for their tasks to claim money.
- > Subcontractor can review their working sessions with time-in, time-out and record mode (auto or manual)
- > Subcontractor can get pay through the system, review and download records of their working session or pay slips.

MILESTONES

	30 Aug	Kick-off meeting
	13 Aug	Requirements Analysis start
	20 Aug	Design and development period starts
	11 Oct	Testing period starts
	18 Oct	User instruction report
	25 Oct	Release first version

DELIVERBALES

- Mobile eSubCon App as requirements.
- Database management system for the app.
- User instruction of the app.
- Project management document related to the app including project plan, requirement specifications, design description, testing plan and report.

APP NAME

eSubCon

CONTEXT OF USAGE & COVERAGE

Full features are used with internet connection: Wifi or 3G

TECHNOLOGY

Ionic and Vue Js Framework

FLATFORM, OS

IOS and Android

ORIENTATION

Both portrait and landscape

RELEASE

Enterprise software product.