

Architecture Breakdown

SPECIFICATIONS AND DETAILED INSIGHT INTO METINET

PREPARED FOR :

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ABOUT US

MetiNet is a new software company with the aim of developing intelligent and user-friendly software to the construction industry.

what we do

We develop web-based project management tools for the construction industry that improve communication between collaborators, allowing companies to seamlessly integrate together to deliver construction projects more efficiently and coherently.

Our products improve visibility and accountability throughout the project lifecycle, and help predict where project failures might occur. We take into account localised data, contract types, cultural differences and much more. Our systems also improve accessibility, so you can access your data at any time, on any device, in any language.

- ✓ Simplified Construction Management
- ✓ Web Based For Improved Accessibility
- ✓ Networked Collaborative Platform
- ✓ Single Package Structure
- ✓ Tailored For The Construction Industry



where we have come from

Having studied engineering and worked on engineering projects both in the UK and abroad our team has had first-hand experience of the issues we are trying to solve. Following further development and research MetiNet has received further recognition and support from the construction community in the North East and furthermore won competitions such as the Lion's Den Competition at Newcastle University.

Press

<https://bdaily.co.uk/entrepreneurship/04-04-2014/newcastle-students-take-ideas-to-the-lions/>

<http://vimeo.com/90478922>



THE PRODUCT

MetiNet takes a new approach to construction management. Our web-based collaborative network will drive efficiency and reduce costs.



EASY PROJECT MANAGEMENT

Our project management tools have been designed with ease of use from the ground up. We believe the only hard work should be data input. After that our system will take over with the monitoring of the construction project.

Furthermore our systems incorporate high level tracking of everything that happens across the board. By recording what each user does, we are increasing visibility and accountability throughout a project lifecycle.

Worried about security? We've got that covered as well. Using the latest developments in web technology, data is only be visible to the people that need to see it.



WEB BASED ACCESS

MetiNet's web-based approach to construction management allows access to projects from anywhere in the world, on any device, at any time. The system has been constructed with compatibility in mind. MetiNet hooks in with your current software and hardware to make your life easier.

MetiNet utilises a SaaS model to our online solutions, which in simple terms shifts the upkeep of the software from the client to us.

We're providing a stress-free solution, reducing costs and driving efficiency leaving our clients to get on with what they are good at.



TAILORED TO EACH PROJECT

Our systems take into account location, cultural differences, contract types and much more to properly monitor and track each construction project. Incorporating unique data and formulae we can ensure that any client is best placed to make informed decisions about how best to move forwards.



COLLABORATIVE NETWORK

MetiNet is built from the ground up with a collaborative framework designed to make everyone's life easier. Changing the approach where each office has their own project management plan, from now on clients can "share" projects.

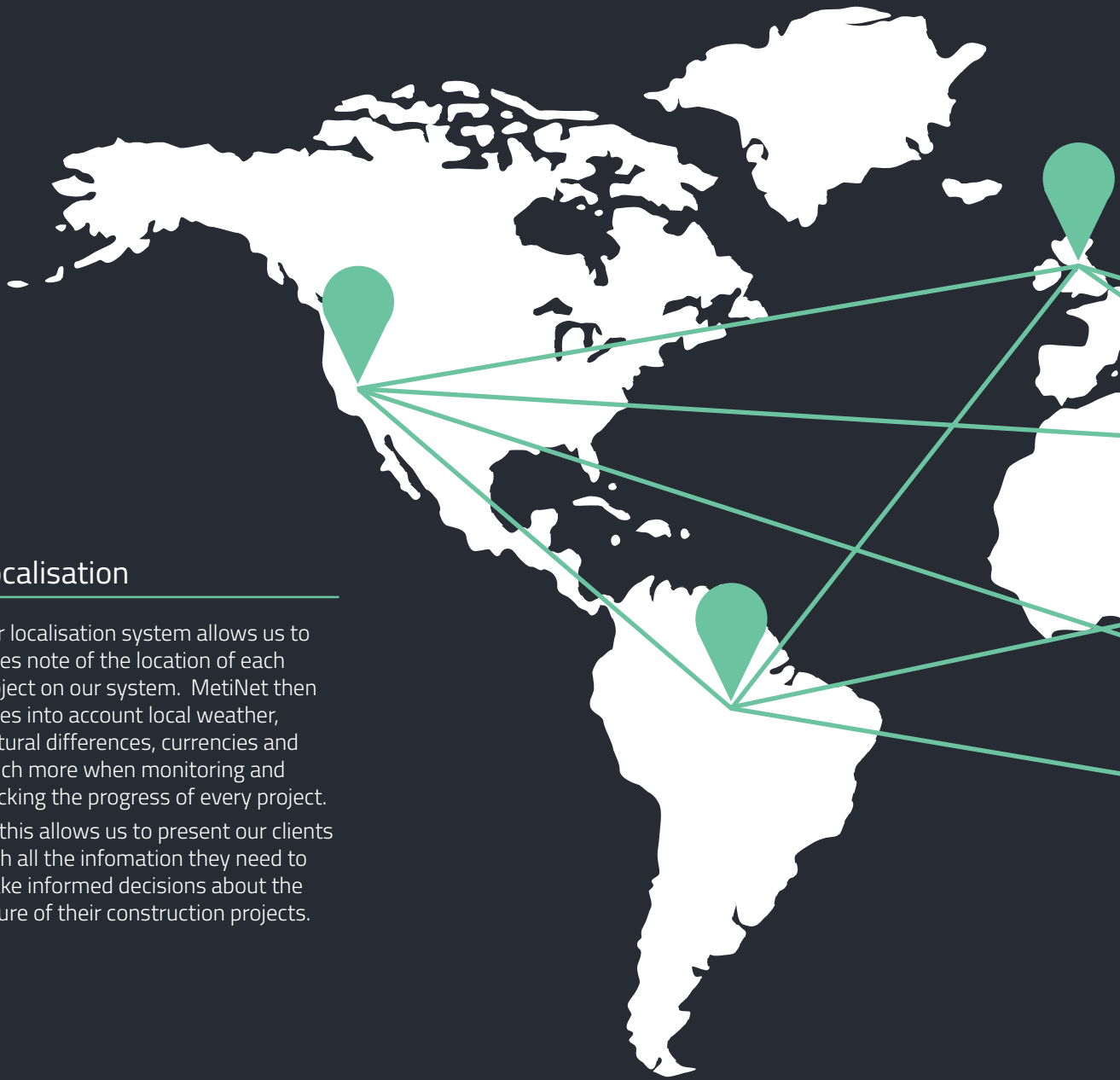
MetiNet's system means each collaborator is given access the most recent information of any project from anywhere in the world, instantaneously. If a client is collaborating with other companies on a construction project then as long as they are also subscribed to our services they can access and update the project too.

COLLABORATIVE NETWORK

Localisation

Our localisation system allows us to take note of the location of each project on our system. MetiNet then takes into account local weather, cultural differences, currencies and much more when monitoring and tracking the progress of every project.

All this allows us to present our clients with all the information they need to make informed decisions about the future of their construction projects.



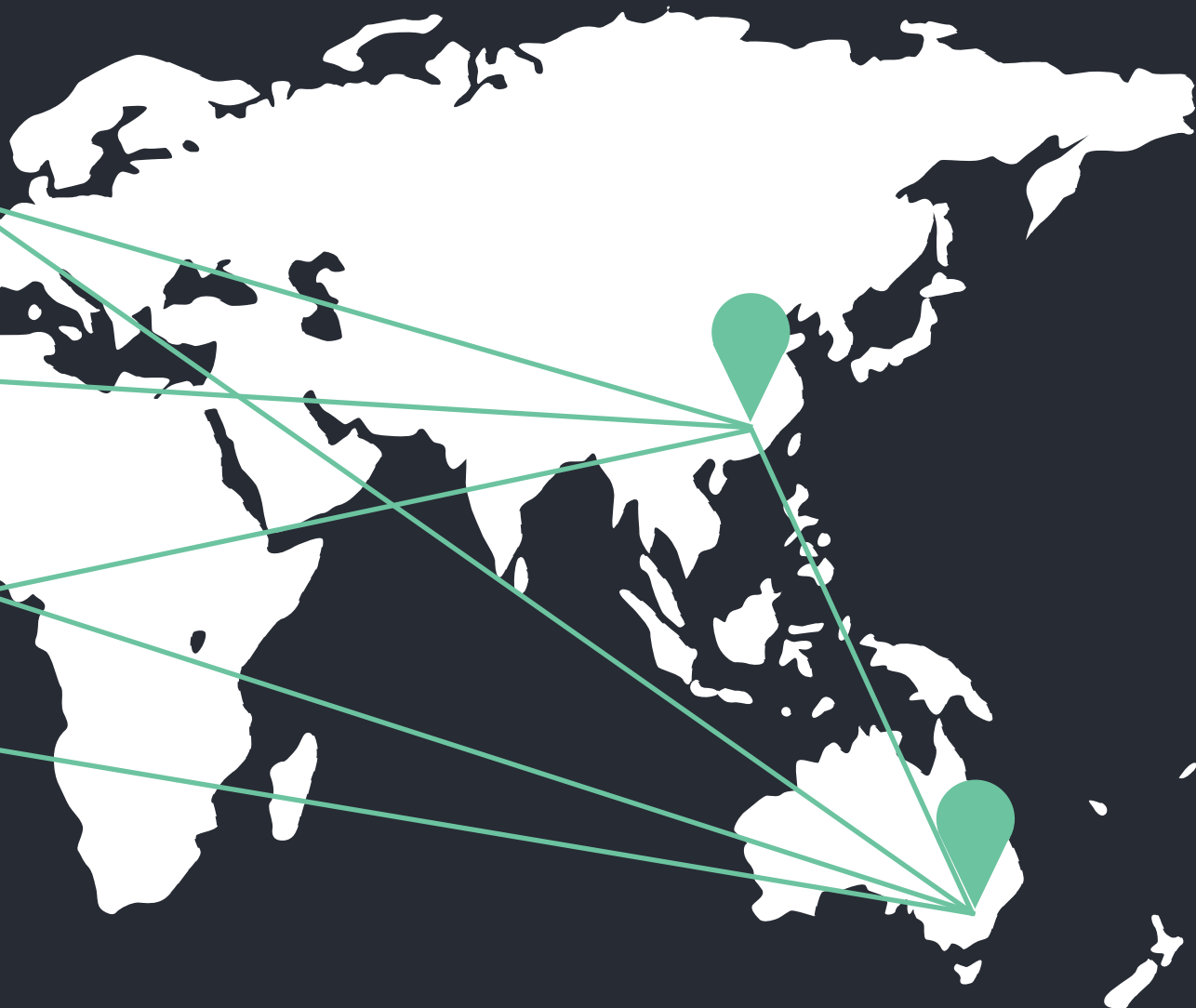
The main substance of our product and what separates us from the rest of the market is the web-based collaborative platform from which all of the construction management modules bolt onto.

Our platform allows clients to “share” construction projects with internal and external collaborators. Any changes made by anyone throughout the project structure, once approved through the configurable heirachical approval structure, are then reflected throughout each collaborators system.

Of course since it's web-based, access to each project is

possible from anywhere in the world, at any time, across a multitude of different languages and different system platforms.

What this means is that project data can be easily communicated with anyone, quickly and efficiently.



PRODUCT IN DETAIL

MetiNet goes a long way to make life easier for the construction sector. The idea behind the product is to do all the hard work, leaving more time to ensure that technical side of the project is executed correctly.

When managing any project, the system takes into account a multitude of different considerations such as location, cultural differences, language, types of contract and more. This ensures that the tracking of the projects is second to none.

Combining this with a robust collaborative network, MetiNet ensures that communication between all parties is simple and effective. MetiNet allows everybody from each company to be kept in the loop at all times, allowing everyone to move faster and more effectively.

Below is a more detailed look into exactly what MetiNet has to offer:

▲ Scheduling & Progress Monitoring

Easily create a project schedule by using the robust Gantt chart system, or importing current data from other systems such as Microsoft Project or Primavera.

Use our powerful search features to quickly find the information you need. View tasks by person, project or whichever view you desire. Quickly find the critical path, or be notified about it through our unique monitoring system.

▲ Intuitive Management Via Gantt Chart Functionality

Our Gantt Charts are easier to use than any out there, and they look good as well. They allow companies to move through a project plan quickly and effectively, bringing them up to speed quicker than before.

This also ties in with our templating system as well, which adds the ability to import structure from previous projects.

▲ Easy Budgeting

Our budgeting functionality will help companies keep on top of their costings and budgets related to their projects, which ties in with all of the latest updates, contracts and change orders.

There will be no more spreadsheets, only simple reports generated by MetiNet. However, there is functionality to allow for spreadsheets.

▲ Tracking and Monitoring of Long Lead Items and Permits

MetiNet uniquely back-calculates the order date for long lead items and permits. Through making use of our integrated distribution system, MetiNet notifies users when this is and reminds them to help reduce project failures.

▲ Document Management with Version Control

Upload documents, drawings, photos and calculations to MetiNet to make them accessible to all collaborators. MetiNet uniquely makes them easy to find with our powerful search tools but also by associating them with individual tasks.

We have also implemented version control. This allows the tracking of changes throughout each document's history and furthermore understand who changed what, when and why.

▲ Change Management with Response Tracking

Change management is simplified using MetiNet. Using in-built hierarchy, any change will be pending until all the relevant parties have approved that change.

Futhermore this is also done via email to ensure that your approvals come quicker and faster, allowing clients to move forwards more efficiently.

▲ Fast RFIs with Tracking

RFIs are built right into MetiNet. Using our distribution system, it can be sent out instantly to specific collaborators. This also comes with the ability to attach drawings and documents that have been uploaded to support each request.

Futhermore, MetiNet then monitors that RFI to make sure that nothing delays any project.

▲ Risk Management

Risk Management is centrally managed in the MetiNet system to then be associated with each task in each project. This means less work whilst producing risk reports tailored to each task.

▲ Contract Management & Integrated Payment Mechanisms

Each project takes into account a multitude of considerations to ensure that the tracking of each project is second to none. One consideration is the types of contracts that exist between parties collaborating on your project.

Going that step futher, MetiNet can even handle payments, securely. Our systems comply with all financial regulations and can be processed as part of the specified contract.

▲ Audit Trail

Everything anyone does on our system is tracked and recorded. This means that project failures can be tracked down to the minute, with details about which user. This is designed to reduce the impact of disputes and faster resolutions.

▲ Automatically Generated Meeting Minutes

MetiNet automatically generates minutes for each progress meeting, and even takes into account the interval of each meeting. A process that would otherwise take a couple of hours.

We track the latest changes, and deliver them on the hour of each meeting. It also incorporates scope for the addition of other agendas to the meeting minutes.

▲ Improved User Interaction

MetiNet from the ground up was designed with usability in mind. We have strived hard to make sure that clients can get the information they need quickly, and have spent hours making sure that confusion is left behind.

MetiNet keeps everyone in the loop with a project "dashboard" tailored to each user. Futhermore emails with concise task lists are circulated for each collaborator. Uniquely we also provide "What Happened Whilst You Were Away" functionality which means each user will never miss a trick.

PRODUCT BY MODULES

While there is one product, it is quite complex. It is therefore split into 4 main modules to better describe the build process and most importantly the key functionality. However there is also an order in which these modules need to come. This is described below:

STEP 01

Core Achitecture Setup
& Creation Of The
Collaborative Platform.

STEP 02

Addition Of Core
Project Manangement
Processes.

STEP 03

Introduction of
Document Control
Module with Version
Control.

STEP 04

Inclusion of Costing
Module with Budget
Monitoring and Control.

STEP 01

Core Architecture & Collaborative Platform.

- Creation of Core Website Architecture.
- Creation of database structure and functionality.
- Setup collaborative network functionality.
- Setup of social network functionality.
- Setup of notification system.
- Setup of access control methods and permissions.
- Integration of localised settings and data.

STEP 02

Core Project Management Processes

- Creation of functionality for construction projects and subsequent activities.
- Incorporation of User Logging and Audit Trail.
- Scheduling and Project Plan Interface with Critical Path.
- Introduction of Tracking of Long Lead Items, Permits, Materials, Labour and Machinery.
- Introduction of Costing of Long Lead Items, Permits, Materials, Labour and Machinery.
- Introduction of Risk Management.
- Introduction of RFIs and Change Management with Tracking.
- Creation of Templating Functionality.
- Integration of Localised Settings & Data with Project Locations.
- Creation of Automatic Meeting Minutes Functionality.
- Merge Social Network Functionality and Project Management Functionality

STEP 03

Document Control Module

- Introduce Functionality to Upload/Download Documents.
- Factor in Version Control.
- Explore Possibility of Collaborative Documents.
- Tie in Document Control with Project Management Functionality

STEP 04

Costing Module with Budget Control

- Introduction of Spot Costing of Long Lead Items, Permits, Materials, Labour and Plant.
- Incorporation of Budget Tracking Functionality.
- Incorporation of Contract Types with Payment Mechanisms.
- Introduction of "Pay Through MetiNet" Functionality (Payment Systems).ww

FUTURE DEVELOPMENT

■ Recruitment Module

Utilising the professional social network module, users would be able to find new jobs. Similarly, companies would be able to post vacancies to fill new positions as they become available.

■ Bidding & Estimation Platform

A marketplace to allow companies to advertise potential projects on MetiNet, or advertise parts of current projects to potential sub-contractors.

This would most likely utilise Google Maps to quickly display potential business in the local vicinity.

■ Resource Base Module

Similar to a Stack Overflow environment, Engineers would be able to share ideas and request help on solving problems with their current projects.

■ Sourcing of Materials & Machinery

MetiNet would be to act as a mediator between projects and the supply of labour, materials and machinery. The aim of this module would be to simplify complex supply chains and improve reliability and accountability. This would also provide a further revenue stream, as MetiNet would look to take a percentage of goods sold.

BRANDING

MetiNet Primary Colour

#6CC3A0

MetiNet Secondary Colour

#272B34

Font

Titillium

MetiNet Primary
Colour

MetiNet Secondary
Colour

Titillium Font

The quick brown fox jumps over the lazy dog

The quick brown fox jumps over the lazy dog

The quick brown fox jumps over the lazy dog

The quick brown fox jumps over the lazy dog

The quick brown fox jumps over the lazy dog

Dev Specific Specifications

Preferred Frameworks

| | | |
|-----------|----------------------|--------------|
| Backend: | Laravel 4 | [PHP] |
| Frontend: | AngularJS / Backbone | [Javascript] |

Preferred APIs

| | |
|-----------------|-----------------|
| Payment System: | Stripe |
| Maps: | Google Maps API |

Examples of Preferred UI

| | | | |
|---|-------------|---|-----------|
| http://forza.ndevrstudios.com/#/ | [AngularJs] | - | Preferred |
| http://caplet.zicedemo.com/dashboard.html | | - | Preferred |
| http://bitpublimedia.ro/themeforest/sapphire-html/index-3.html | | | |
| http://revox.io/webarch/latest/index.html | | | |
| http://ndesaintheme.com/apricot/ | | | |

Further Information

Main Framework

The proof of concept has been built using Laravel and thus is the one best understood by MetiNet. We would be keen to keep this as the codebase for MetiNet for the purposes of making any future development as easy as possible.

We are big fans of the smooth UI that is offered by Single Page Applications, and thus would be keen to implement AngularJS or something similar for the frontend development.

Third Party Plugins

Stripe is preferred due to the fantastically simple API and easy integration with Laravel. It also integrates with the accounting systems we use.

Examples of UI

Caplet is our favourite UI due to the minimal design and stress-free colours. We do find some of the javascript plugins a bit disfunctional, for example the left menu. We also don't particularly like the User Profile page. We do however love the right hand menu. We love the minimal and clean design offered by Sapphire as an example of the landing page.

Other

All code must be fully commented and easy to read.

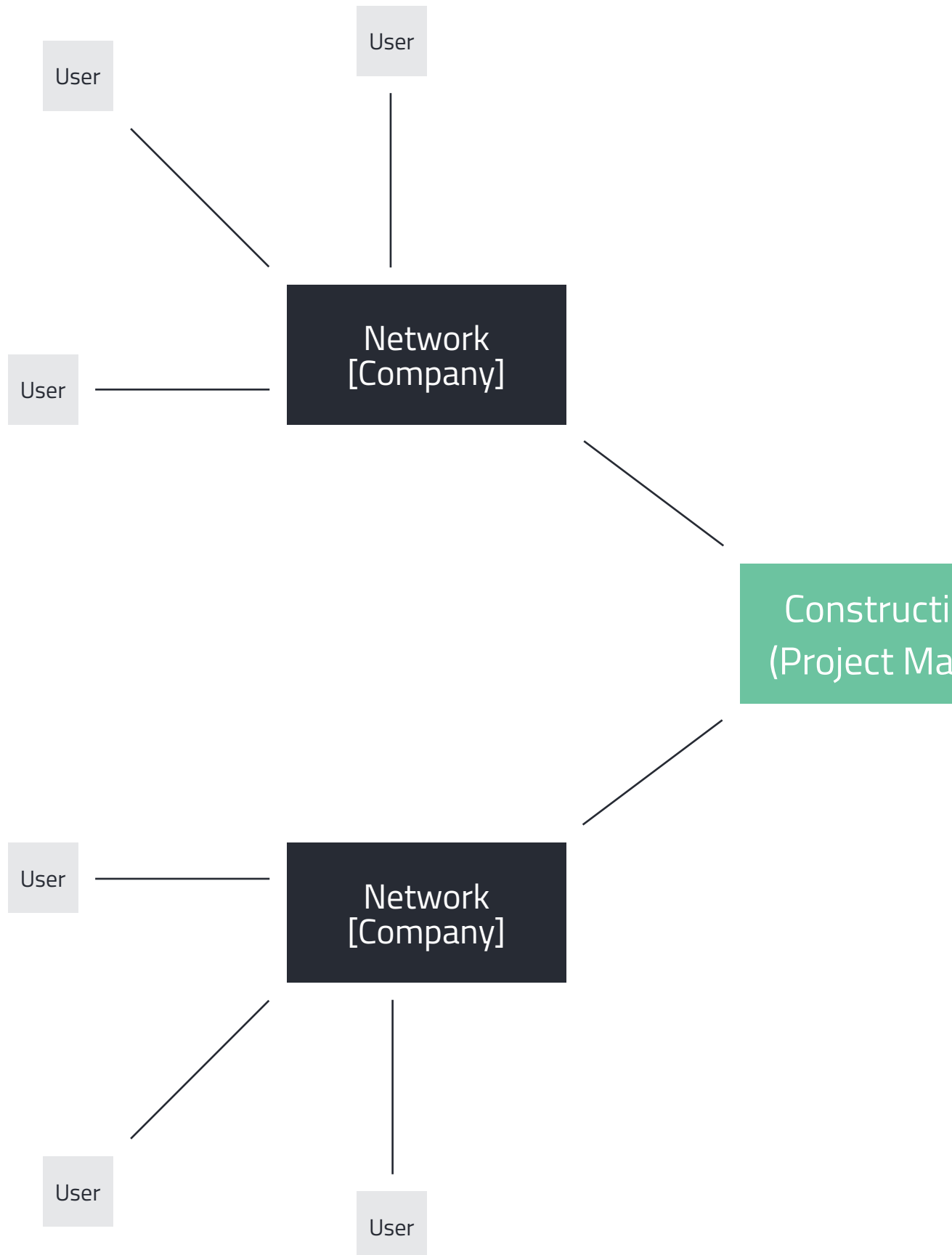
Full use of the IOC Container is expected, with repositories and interfaces to allow for scalability.

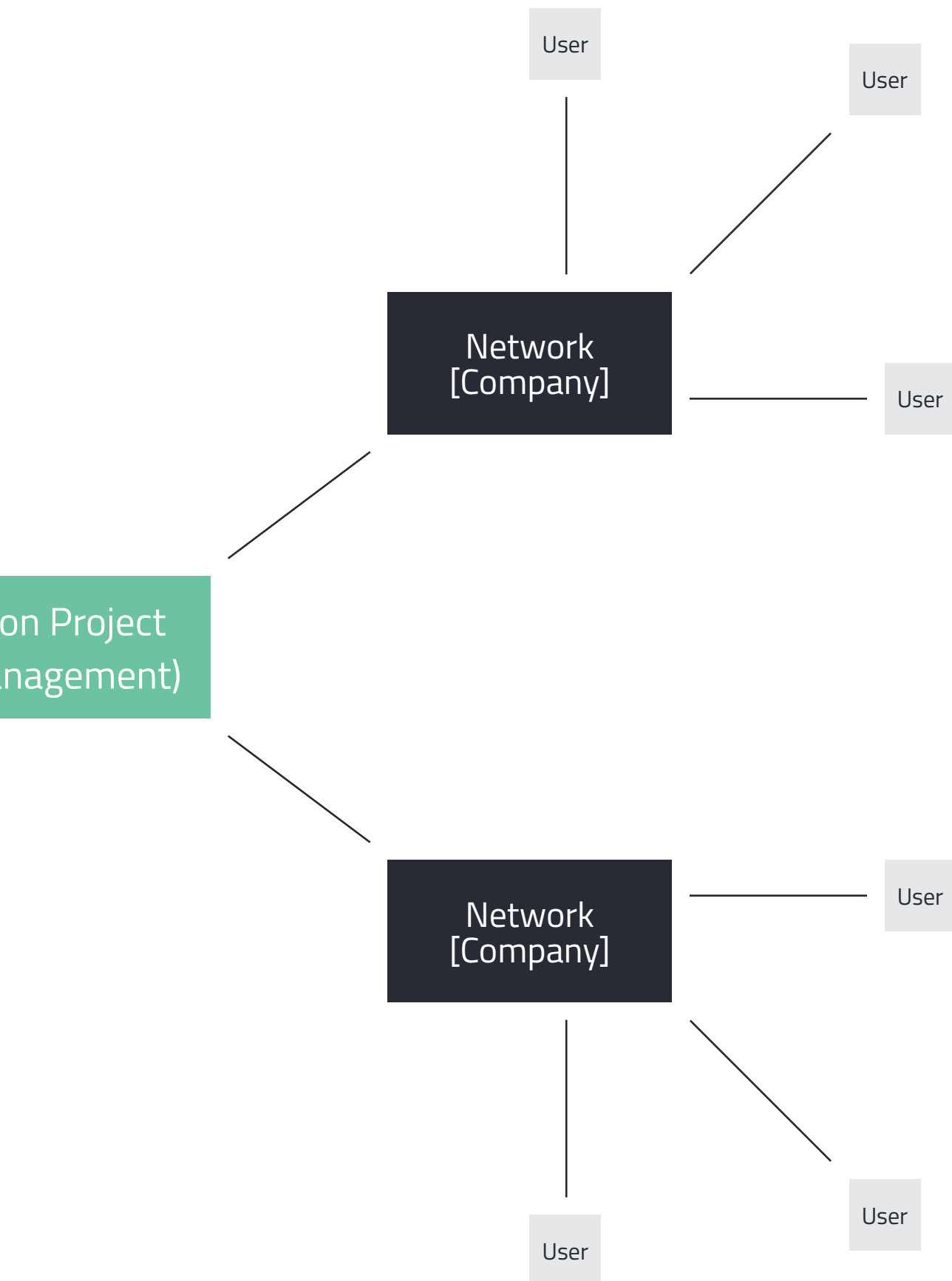
The build must come with documentation and a general "Help Zone".

If you have substantial reason to think that the project would perform better using different frameworks or plugins, or you believe that the examples of UI given are not best suited for this build, then we are happy to hear your substitutes and suggestions.

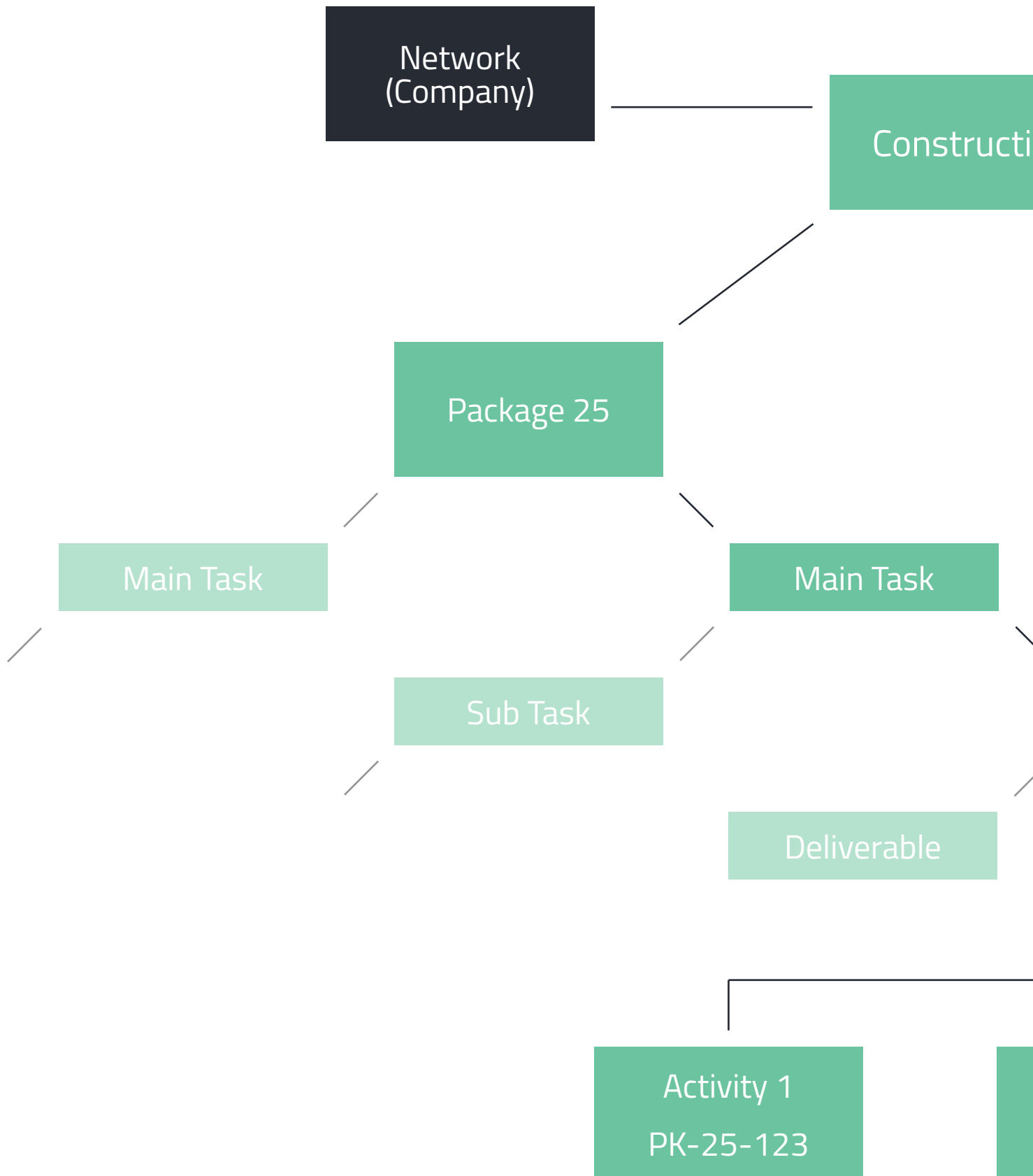
UML and Structural Diagrams can be found in the following pages..

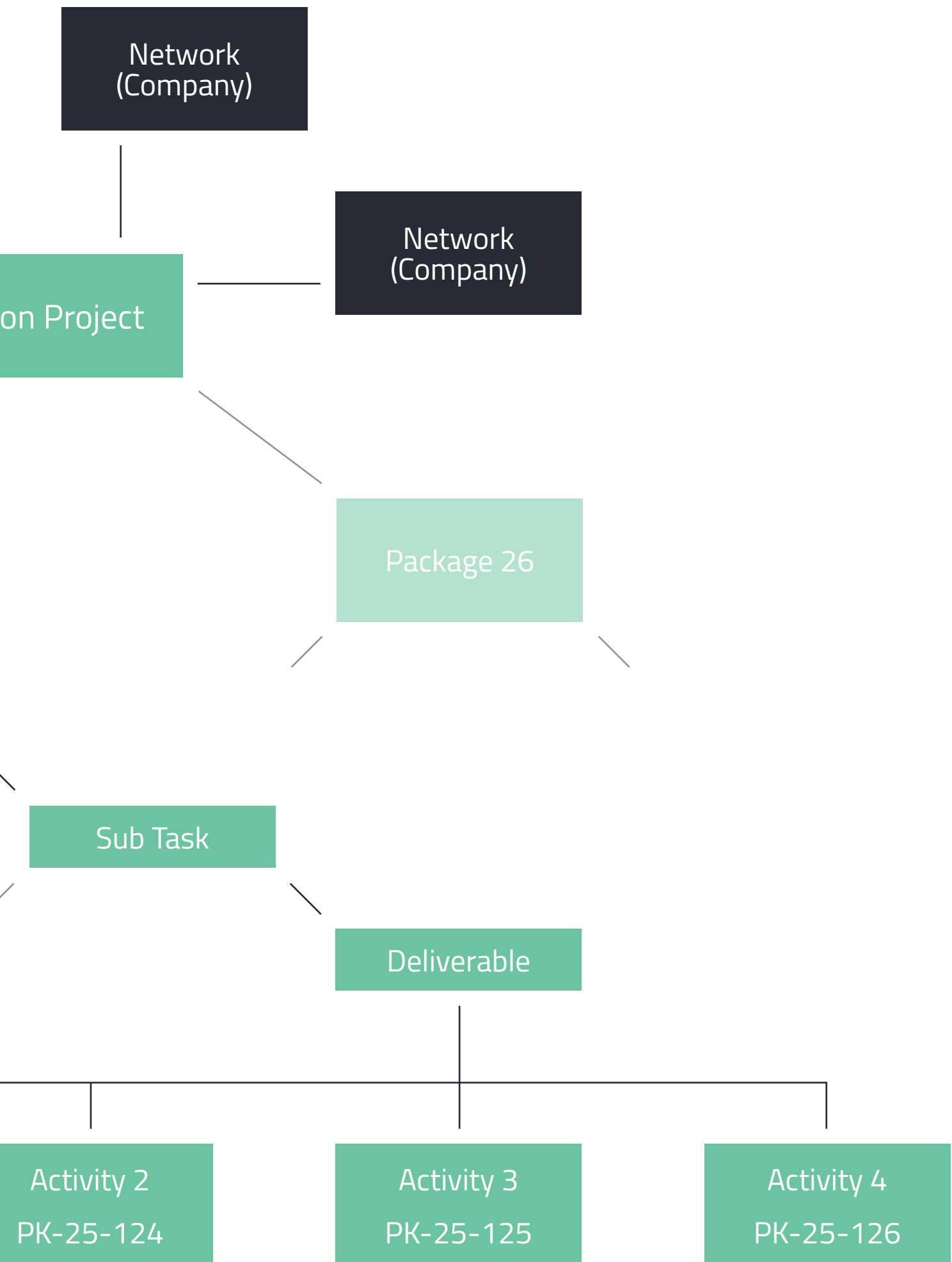
User / Company / Project Interact



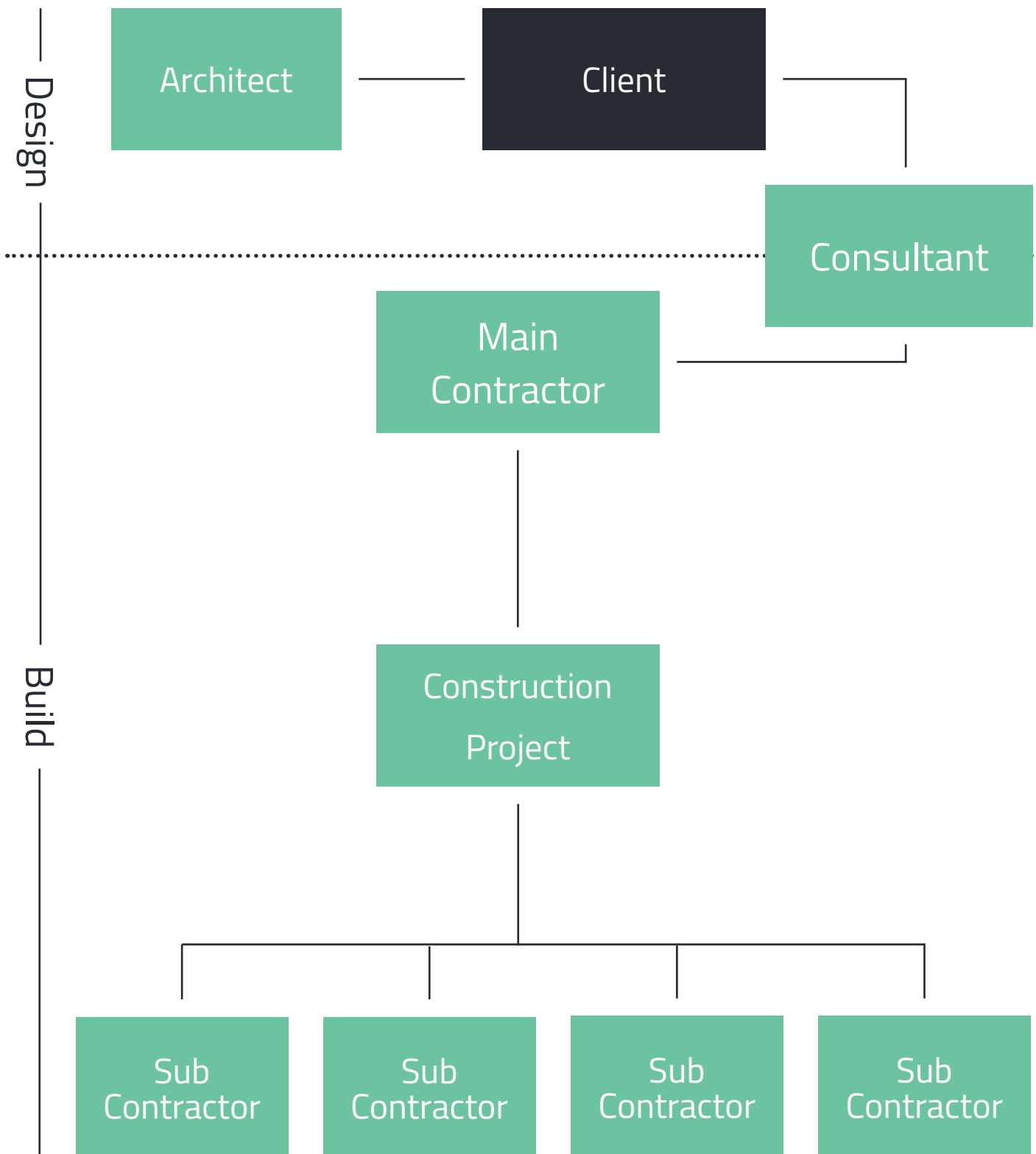


Project / Activity Structure

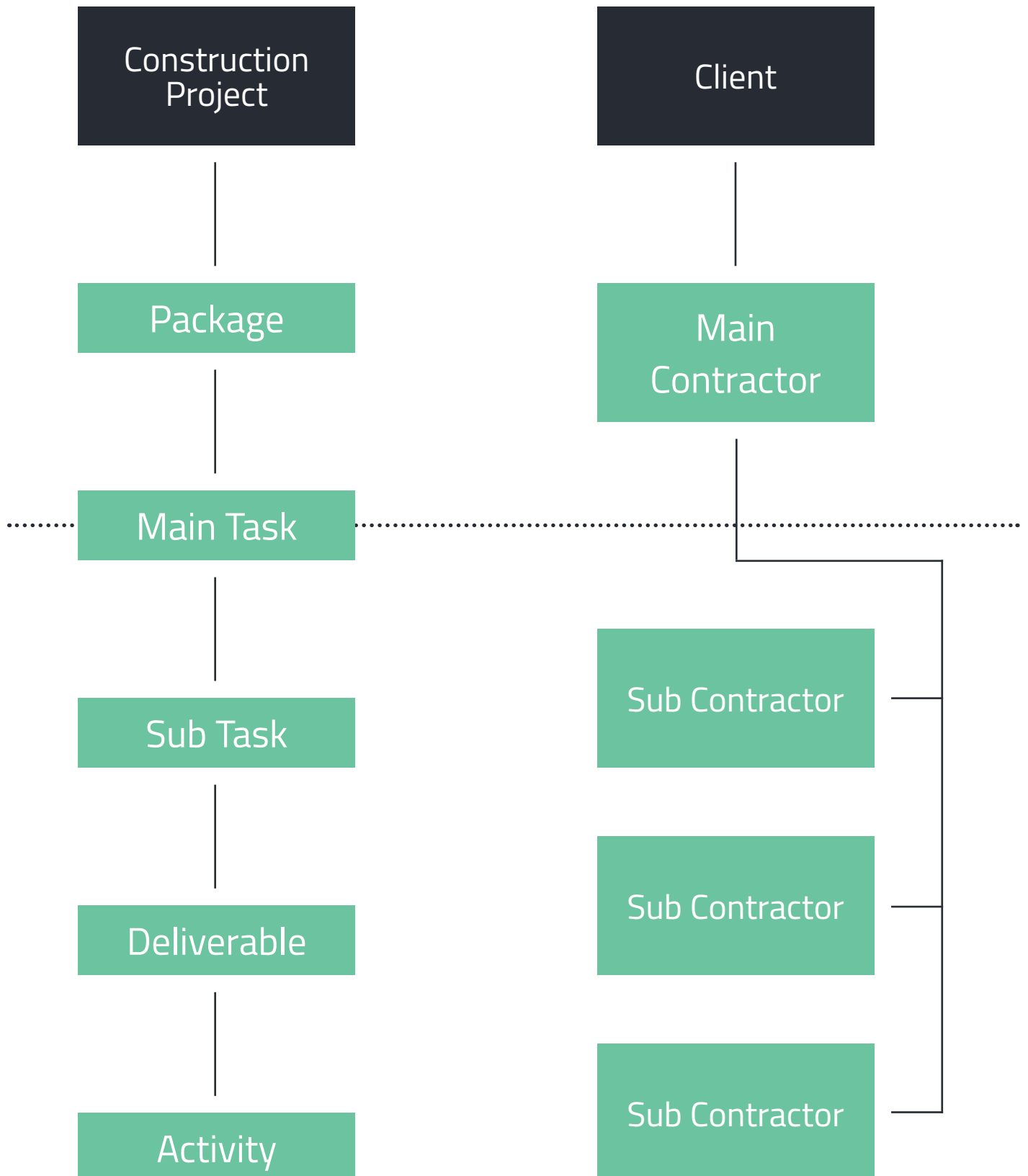




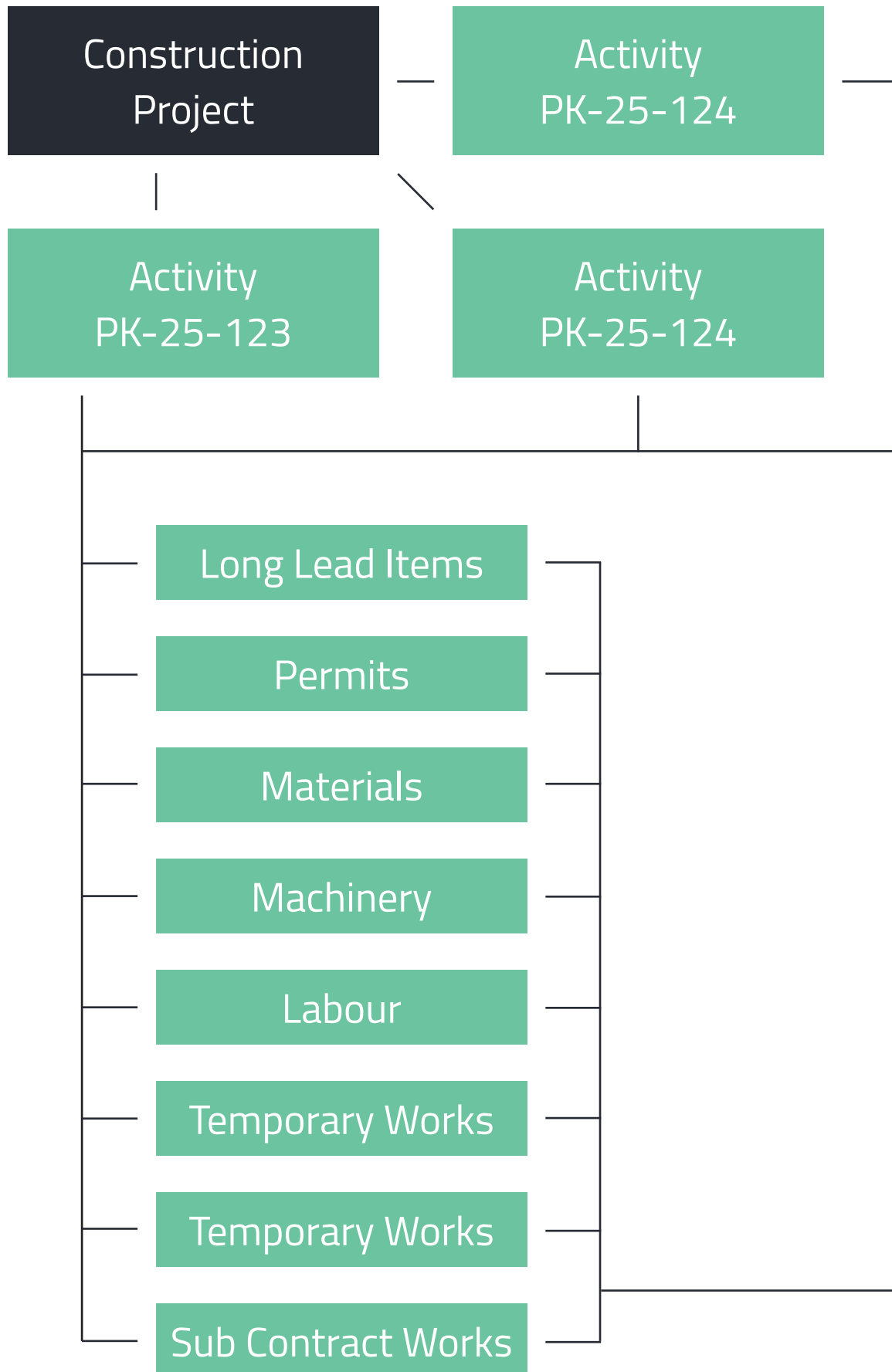
Real-World Client / Contractor Relationship (Design & Build Model)



Hierarchical Control Model



Activity Structure



Cost Breakdown Structure

Long Lead Items

| Item | Unit Cost (£) | Quantity | Sub-Total (£) |
|---------------|---------------|----------|---------------|
| Runway Lights | 10.00 | 1000 | 10,000.00 |
| Fittings | 15.00 | 500 | 7,500.00 |
| Total | | | 17,500.00 |

Permits

| Item | Unit Cost (£) | Quantity | Sub-Total (£) |
|------------------|---------------|----------|---------------|
| Discharge Permit | 100.00 | 1 | 100.00 |
| Dig Permit | 150.00 | 1 | 150.00 |
| Total | | | 250.00 |

Materials

| Material | Unit Cost (£) | Quantity | Sub-Total (£) |
|-----------------|---------------|----------|---------------|
| Type 1 Sub Base | 100.00 | 1 | 100.00 |
| Dig Permit | 150.00 | 1 | 150.00 |
| Total | | | 250.00 |

Machinery / Plant

| Plant | Hire Cost | Unit Cost (£) | Quantity | Days | Sub-Total (£) |
|-----------|-----------|---------------|----------|------|---------------|
| Digger | 1,000.00 | 500.00 | 2 | 5 | 41,000.00 |
| Bulldozer | 1,500.00 | 600.00 | 3 | 10 | 145,500.00 |
| Total | | | | | 186,500.00 |

Labour

| Plant | Unit Cost (£) | Quantity | Days | Sub-Total (£) |
|-------------|---------------|----------|------|---------------|
| Carpenter | 10.00 | 2 | 5 | 800.00 |
| Electrician | 20.00 | 3 | 10 | 4,800.00 |
| Total | | | | 5,600.00 |

Temporary Works

| Works | Sub-Total (£) |
|---------------|---------------|
| Waterproofing | 80,000.00 |
| Total | 80,000.00 |

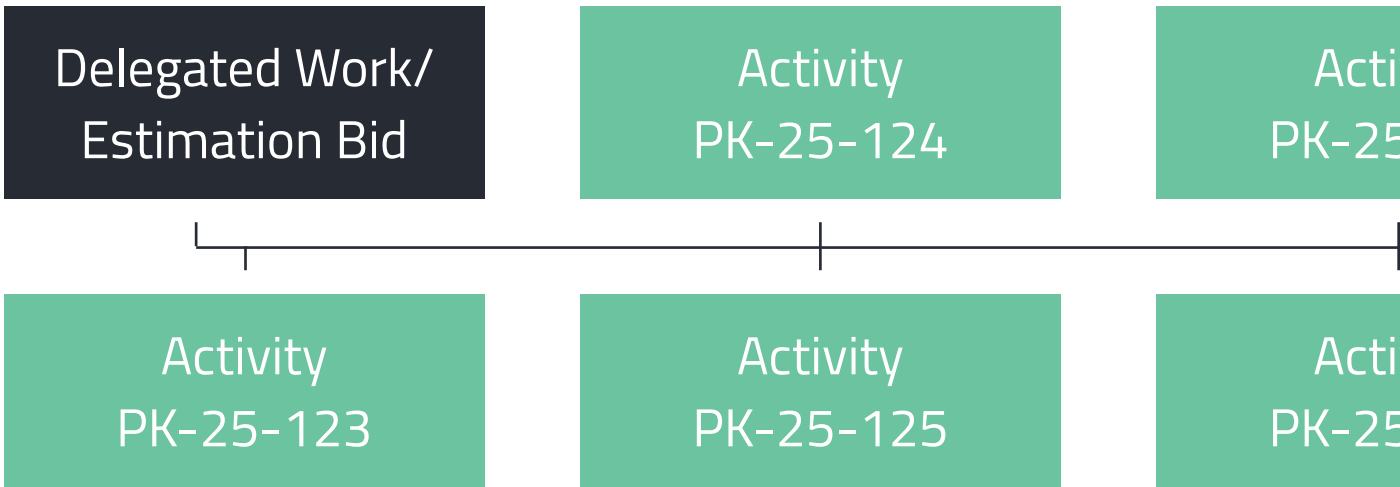
Sub Contract Works

| Item | Sub-Total (£) |
|----------------|---------------|
| Concrete Floor | 80,000.00 |
| Total | 80,000.00 |

Cost of Activity PK-25-123

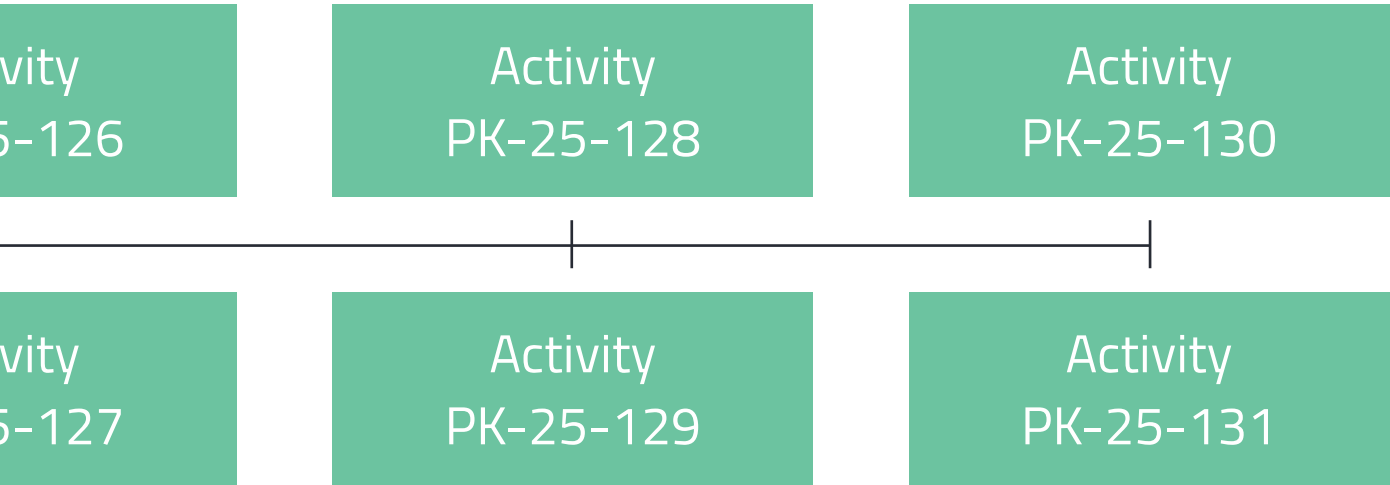
£370,100.00

Cost/Estimation Breakdown As For



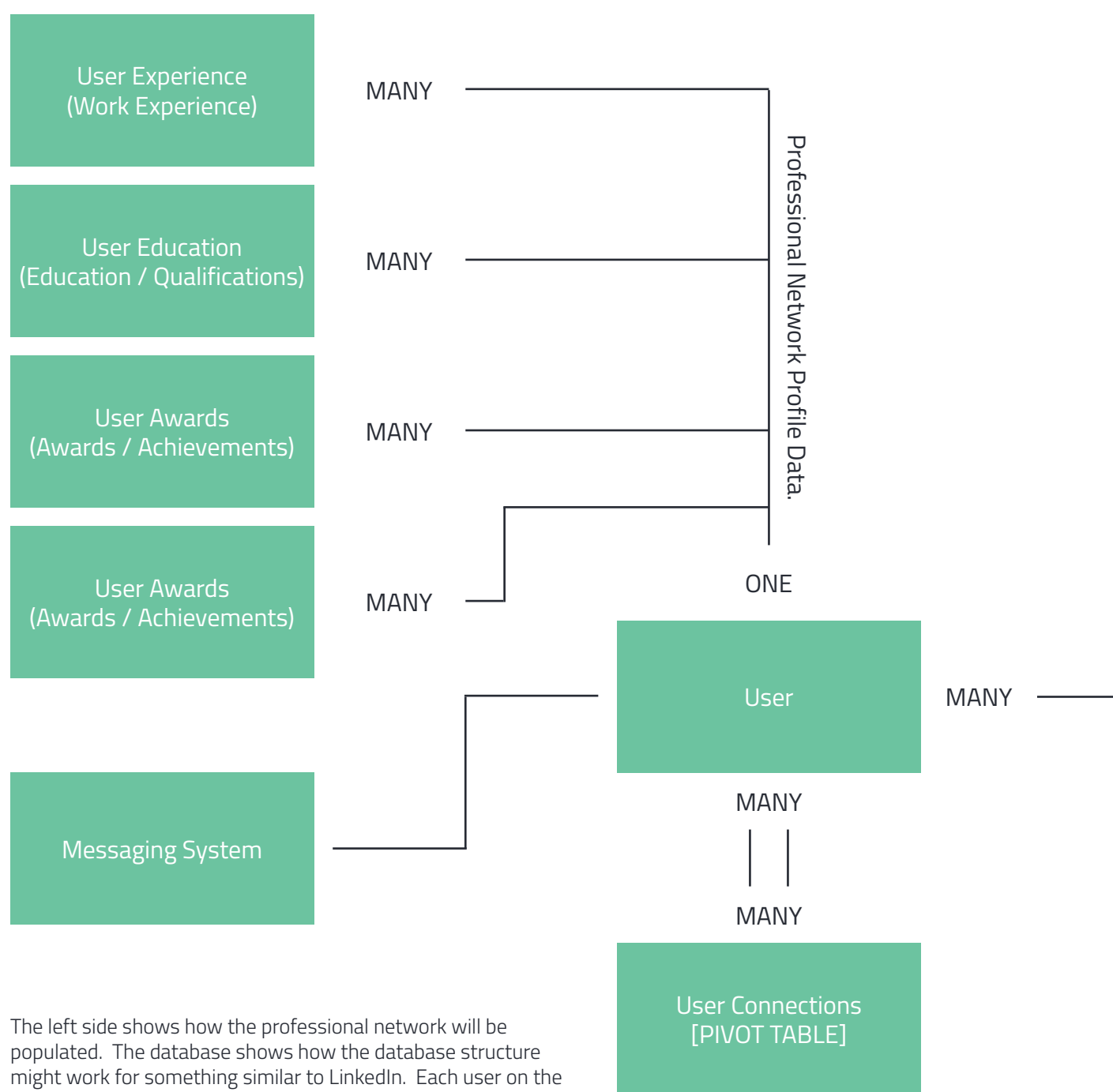
| Activity | Materials | Machinery | Labour | Lo |
|---------------------|------------------|------------------|-------------------|------------|
| PK-25-123 | 1,000,000 | 1,000,000 | 1,000,000 | 1,0 |
| PK-25-124 | 1,000,000 | 1,000,000 | 1,000,000 | 1,0 |
| PK-25-125 | 1,000,000 | 1,000,000 | 1,000,000 | 1,0 |
| PK-25-126 | 1,000,000 | 1,000,000 | 1,000,000 | 1,0 |
| PK-25-127 | 1,000,000 | 1,000,000 | 1,000,000 | 1,0 |
| PK-25-128 | 1,000,000 | 1,000,000 | 1,000,000 | 1,0 |
| PK-25-129 | 1,000,000 | 1,000,000 | 1,000,000 | 1,0 |
| PK-25-130 | 1,000,000 | 1,000,000 | 1,000,000 | 1,0 |
| PK-25-131 | 1,000,000 | 1,000,000 | 1,000,000 | 1,0 |
| Sub Totals | 8,000,000 | 8,000,000 | 8,000,000 | 8,0 |
| Sales Taxes (7.5%) | 600,000 | 0 | 0 | 0 |
| Payroll Taxes (31%) | 0 | 0 | 2,480,000 | 0 |
| Sub Total | 8,600,000 | 8,000,000 | 10,480,000 | 8,0 |
| Overhead (5%) | | | | |
| Sub Total | | | | |
| Profit (5%) | | | | |
| Total | | | | |

or Each Contractor



| ing Lead | Permits | Sub Contracts | Temp | Sub Total |
|----------|-----------|---------------|-----------|------------|
| 00,000 | 1,000,000 | 1,000,000 | 1,000,000 | 7,000,000 |
| 00,000 | 1,000,000 | 1,000,000 | 1,000,000 | 7,000,000 |
| 00,000 | 1,000,000 | 1,000,000 | 1,000,000 | 7,000,000 |
| 00,000 | 1,000,000 | 1,000,000 | 1,000,000 | 7,000,000 |
| 00,000 | 1,000,000 | 1,000,000 | 1,000,000 | 7,000,000 |
| 00,000 | 1,000,000 | 1,000,000 | 1,000,000 | 7,000,000 |
| 00,000 | 1,000,000 | 1,000,000 | 1,000,000 | 7,000,000 |
| 00,000 | 1,000,000 | 1,000,000 | 1,000,000 | 7,000,000 |
| 00,000 | 1,000,000 | 1,000,000 | 1,000,000 | 7,000,000 |
| 00,000 | 1,000,000 | 1,000,000 | 1,000,000 | 7,000,000 |
| 00,000 | 8,000,000 | 8,000,000 | 8,000,000 | 56,000,000 |
| | 0 | 0 | 0 | 600,000 |
| | 0 | 0 | 0 | 2,480,000 |
| 00,000 | 8,000,000 | 8,000,000 | 8,000,000 | 59,080,000 |
| | | | | 2,954,000 |
| | | | | 62,034,000 |
| | | | | 3,101,700 |
| | | | | 65,135,700 |

User / Network / Profile Data Relationship



The left side shows how the professional network will be populated. The database shows how the database structure might work for something similar to LinkedIn. Each user on the system also has the ability to connect to any other user as found on Facebook or LinkedIn.

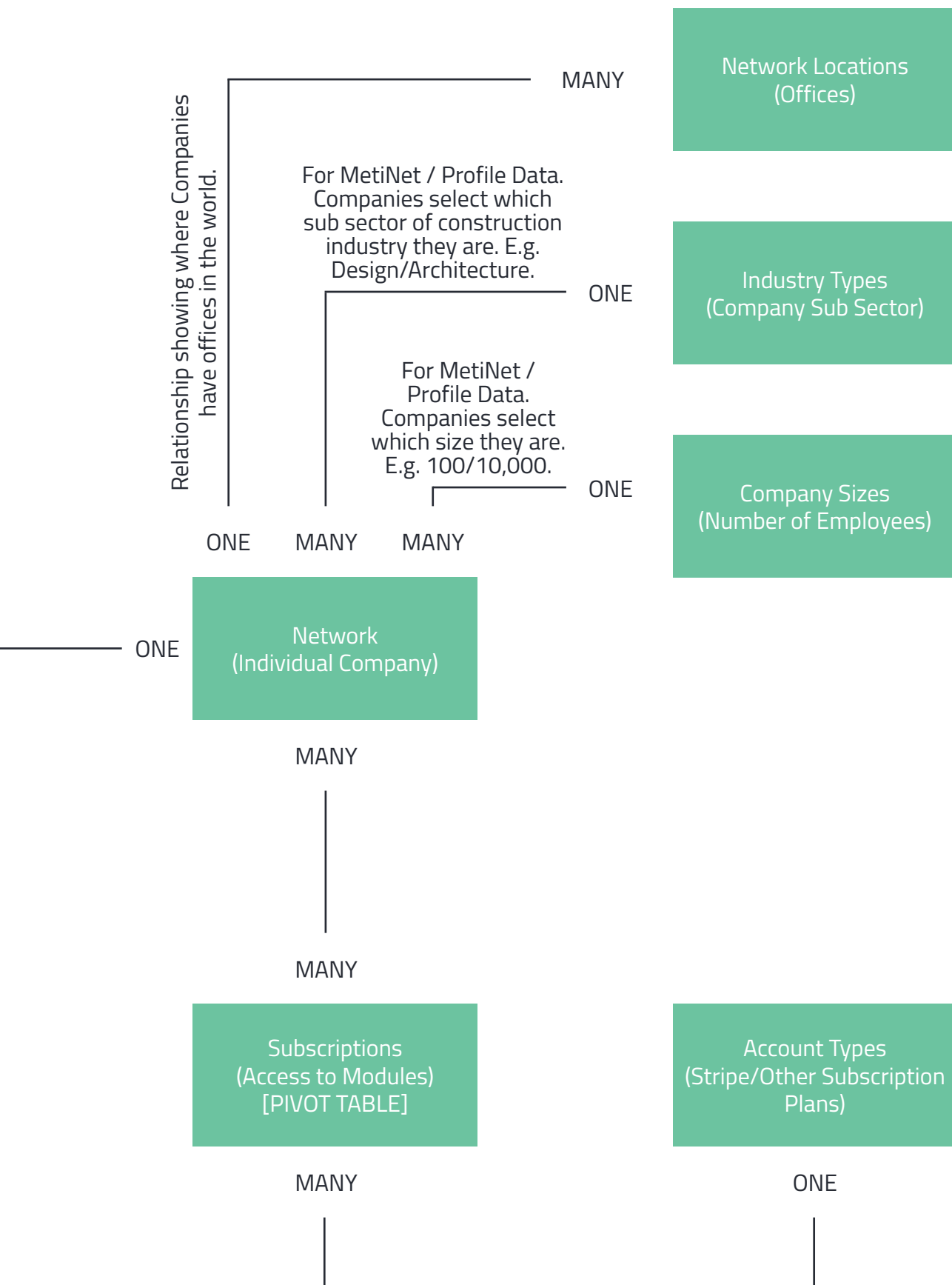
Further to that the User links through to an internal messaging system which is self-explanatory.

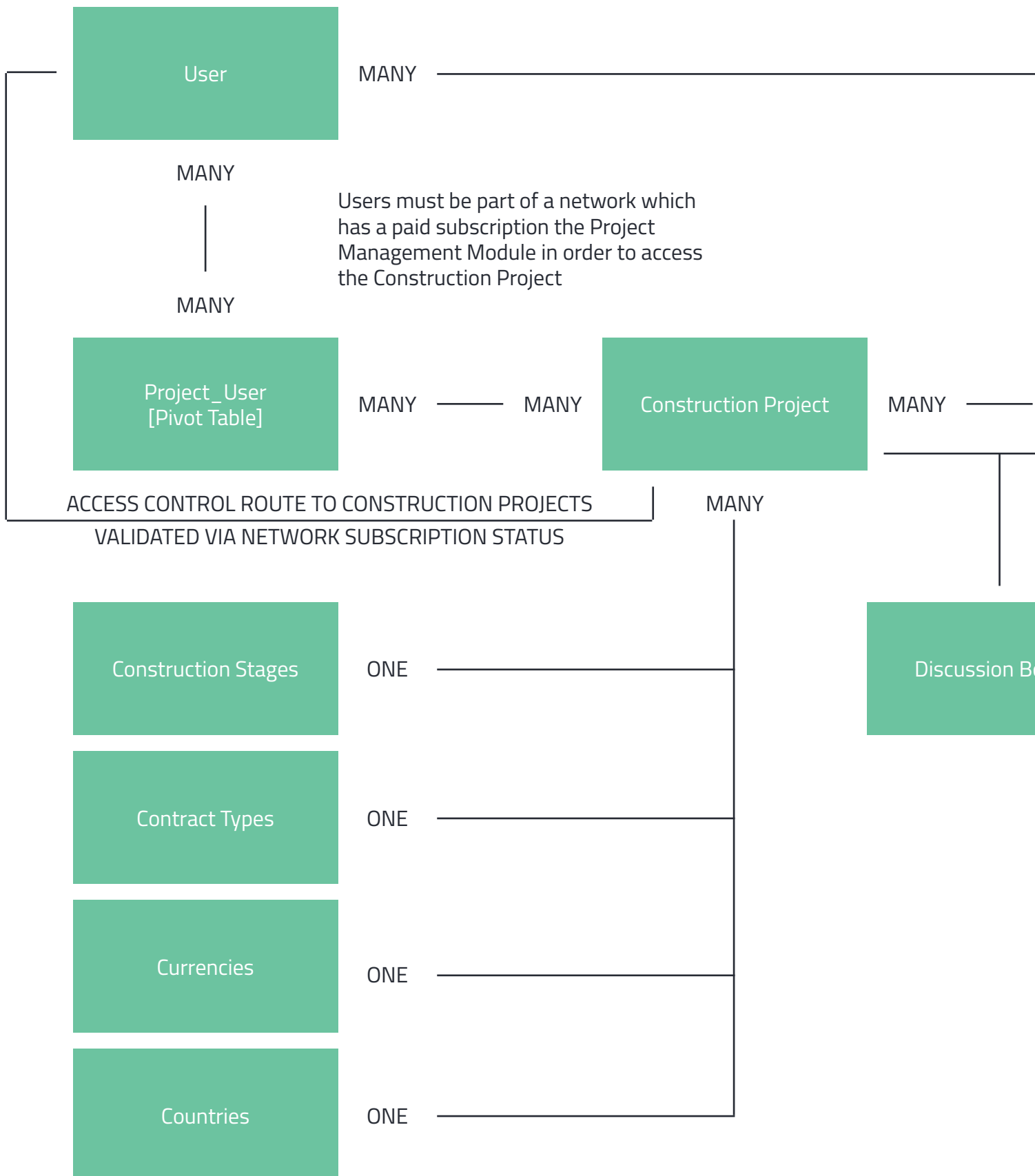
The right side shows the structure of each Company, modelled as Networks. It is important to gather data about the location of each Company's office (Network Locations) for the directory of collaborators. Furthermore for consistency in Company Profiles, generic data such as the sub sector that each Company works in and the size of each Company will be selectable from our Database.

Companies will be subscribed to the Services offered by MetiNet. In this way, Users can sign up to the site and have access the professional network, but in order to access paid services, Users will have to join a Company Network which is subscribed the paid services.

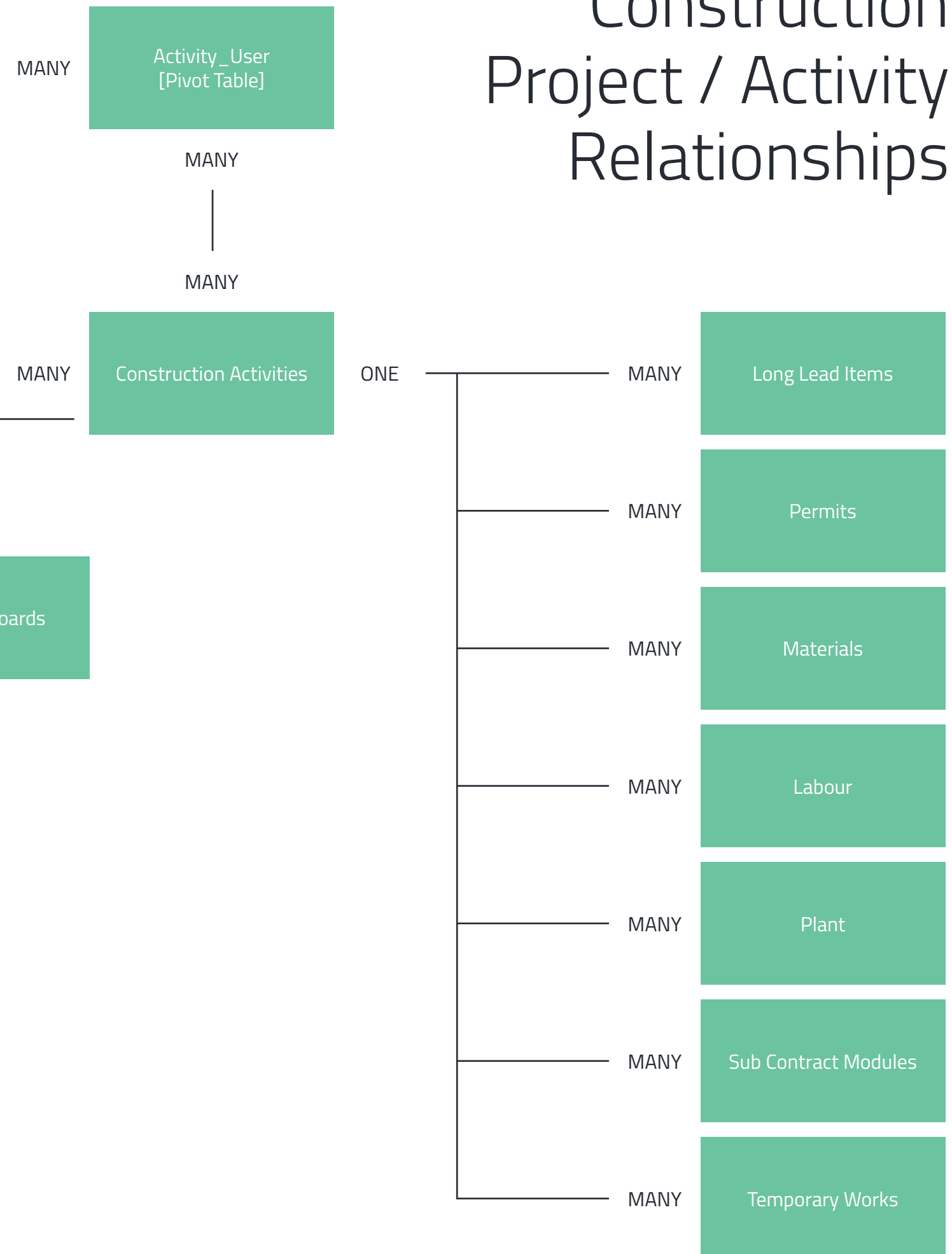
Each module will count as a different subscription, and thus will require its own access control.

Relationships





Construction Project / Activity Relationships



DB TABLE STRUCTURES

| Field | Type | Key | Default | Context |
|----------------------|---------|-------------|---------|-----------------------------------|
| Account Types | | | | |
| name | Varchar | | | Name of the subscription plan |
| stripe_plan_id | Varchar | [Pri] [For] | | Reference ID to payment system |
| cost | Int | | | Cost of subscription |
| Interval | Varchar | | | Payment Interval (Monthly/Annual) |
| trial_period | Int | | 30 | Days for free trial |
| storage | Int | | | Number of Gb for Document Storage |
| users | Int | | | Number of Users allowed for plan |
| support | Boolean | | | Support inclusive? |
| recommended | Boolean | | | Preferred subscription plan? |

Activities

| | | | | |
|-------------------|------------|-------|--|---------------------------------------|
| id | Increments | [Pri] | | DB ID for Activity |
| specific_id | Varchar | | | Unique for each project |
| desc | Varchar | | | Readable name for activity |
| start_date | DateTime | | | Start date of activity |
| end_date_contract | DateTime | | | Contractual end date |
| end_date_calc | DateTime | | | Calculated end date |
| budget_contract | Int | | | Budget associated with activity |
| budget_calc | Int | | | Calculated Budget |
| duration | Int | | | Number of days to complete activity |
| progress | Double | | | Percentage Complete |
| lat | Double | | | Latitude of Activity |
| lng | Double | | | Longitude of Activity |
| dependence_id | Int | [For] | | Reference to preceeding activity |
| dependence_start | Int | | | Days after previous activity to start |
| project_id | Int | [For] | | References the project_id |
| completed | Boolean | | | Is the activity complete? |

Activity_User [Pivot Table]

| | | | | |
|-------------|-----|-------|--|--|
| user_id | Int | [For] | | References User ID on User Table |
| activity_id | Int | [For] | | References Activity ID on Activity Table |

Company Sizes

| | | | | |
|------|------------|-------|--|----------------------|
| id | Increments | [Pri] | | |
| size | Varchar | | | States size category |

Construction Stages

| | | | | |
|-------|------------|-------|--|---------------------------|
| id | Increments | [Pri] | | |
| stage | Varchar | | | States construction stage |

| Field | Type | Key | Default | Context |
|-----------------------|------------|-------|---------|-----------------------------|
| Contract Types | | | | |
| id | Increments | [Pri] | | |
| contract_type | Varchar | | | States contract type |
| Countries | | | | |
| id | Increments | [Pri] | | |
| iso | Varchar | | | GB |
| name | Varchar | | | UNITED KINGDOM |
| nice_name | Varchar | | | United Kingdom |
| iso3 | Varchar | | | GBR |
| numcode | Varchar | | | 826 |
| phonecode | Varchar | | | 44 |
| working_days | Varchar | | | 5 |
| working_hours | Varchar | | | 8 |
| currency_id | Varchar | [For] | | References ID on Currencies |

| | | | | |
|------------------|------------|-------|--|----------------|
| Countries | | | | |
| id | Increments | [Pri] | | |
| name | Varchar | | | BRITISH POUND |
| nice_name | Varchar | | | Pound Sterling |
| code | Varchar | | | GBP |
| symbol | Varchar | | | £ |

| | | | | |
|-------------|---------|--|--|-----------------------------|
| Days | | | | |
| id | Varchar | | | Reference for Language File |
| name | Varchar | | | Name of day |

| | | | | |
|-------------------|------------|-------|--|---|
| Industries | | | | |
| id | Increments | [Pri] | | |
| name | Varchar | | | Name of sub sector of construction sector |

| | | | | |
|---------------|-----------|-------|--|-----------------------------|
| Labour | | | | |
| id | Increment | [Pri] | | |
| name | Varchar | | | Type of Labourer |
| quantity | Int | | | Quantity |
| cost | Int | | | Cost of Per Hour |
| hours | Int | | | Hours needed for work |
| activity_id | Int | [For] | | References ID on Activities |
| project_id | Int | [For] | | References ID on Projects |

| | | | | |
|------------------------|-----------|-------|--|------------------------|
| Long Lead Items | | | | |
| id | Increment | [Pri] | | |
| name | Varchar | | | Name of Long Lead Item |
| delivery_time | Int | | | Days to deliver item |
| approval_time | Int | | | Days to approve item |
| quantity | Int | | | Number of items needed |

| Field | Type | Key | Default | Context |
|-------------|------|-------|---------|-----------------------------|
| cost | Int | | | Cost of item |
| activity_id | Int | [For] | | References ID on Activities |
| project_id | Int | [For] | | References ID on Projects |

Machinery

| | | | | |
|-------------|-----------|-------|--|-----------------------------|
| id | Increment | [Pri] | | |
| name | Varchar | | | Name of Machinery |
| quantity | Int | | | Quantity |
| cost | Int | | | Cost of machinery |
| activity_id | Int | [For] | | References ID on Activities |
| project_id | Int | [For] | | References ID on Projects |

Materials

| | | | | |
|-------------|-----------|-------|--|-----------------------------|
| id | Increment | [Pri] | | |
| name | Varchar | | | Name of Material |
| quantity | Int | | | Quantity needed |
| cost | Int | | | Cost of material |
| activity_id | Int | [For] | | References ID on Activities |
| project_id | Int | [For] | | References ID on Projects |

Months

| | | | | |
|------|---------|--|--|-----------------------------|
| id | Varchar | | | Reference for Language File |
| name | Varchar | | | Name of month |

Network Locations

| | | | | |
|------------|------------|-------|--|----------------------------|
| id | Increments | [Pri] | | |
| network_id | Int | [For] | | References ID on Networks |
| name | Varchar | | | Name of office |
| address1 | Varchar | | | Address Line 1 |
| address2 | Varchar | | | Address Line 2 |
| city | Varchar | | | City |
| post_code | Varchar | | | Post Code |
| country_id | Int | [For] | | References ID on Countries |
| tel | Int | | | Telephone Number |
| lat | Double | | | Latitude of Office |
| lng | Double | | | Longitude of Office |

Networks

| | | | | |
|-------------|-----------|----------|--|---|
| id | Increment | [Pri] | | |
| name | Varchar | | | Name of Company |
| desc | Text | | | Company description |
| logo | Varchar | | | File name of logo |
| website | Varchar | [Unique] | | Unique URL address |
| rep_id | Int | [For] | | Point of contact. References ID on Users |
| head_office | Int | [For] | | Billing Address. References ID on Locations |
| customer_id | Varchar | [For] | | References ID from Payment System |
| industry_id | Int | [For] | | References ID on Industries |

| Field | Type | Key | Default | Context |
|---------|------|-------|---------|--------------------------------|
| size_id | Int | [For] | | References ID on Company Sizes |

Permits

| | | | | |
|------------------|-----------|-------|--|----------------------------------|
| id | Increment | [Pri] | | |
| name | Varchar | | | Name of Permit |
| application_time | Int | | | Days to apply and receive permit |
| quantity | Int | | | Number of permits needed |
| cost | Int | | | Cost of permit |
| activity_id | Int | [For] | | References ID on Activities |
| project_id | Int | [For] | | References ID on Projects |

Project_User [Pivot Table]

| | | | | |
|------------|-----|-------|--|---------------------------|
| user_id | Int | [For] | | References ID on User |
| project_id | Int | [For] | | References ID on Projects |

Projects

| | | | | |
|--------------------|-----------|-------|--|--|
| id | Increment | [Pri] | | |
| name | Varchar | | | Name of Project |
| desc | Varchar | | | Project description |
| lat | Double | | | Latitude of Project |
| lng | Double | | | Longitude of Project |
| address1 | Varchar | | | Address Line 1 |
| address2 | Varchar | | | Address Line 2 |
| city | Varchar | | | City |
| post_code | Varchar | | | Post Code |
| country_id | Int | [For] | | References ID on Countries |
| currency_id | Int | [For] | | References ID on Currencies |
| client_id | Int | [For] | | References ID on Networks |
| contractor_id | Int | [For] | | References ID on Networks |
| consultant_id | Int | [For] | | References ID on Networks |
| start_date | DateTime | | | Start date of activity |
| end_date_contract | DateTime | | | Contractual end date |
| end_date_calc | DateTime | | | Calculated end date |
| budget_contract | Int | | | Budget associated with activity |
| budget_calc | Int | | | Calculated Budget |
| progress | Double | | | Percentage Complete |
| progress_reports | Boolean | | | Monitor Progress? |
| long_lead_items | Boolean | | | Monitor Long Lead Items? |
| risk_assessment | Boolean | | | Allow risk assessment? |
| permit_assessment | Boolean | | | Monitor Permits? |
| cost_assessment | Boolean | | | Monitor Budgets? |
| approval_time | Int | | | Default approval time for long lead items/ |
| permits | | | | |
| alert_threshold | Int | | | Default alert threshold |
| contract_type | Int | [For] | | References ID on Contract Types |
| construction_stage | Int | [For] | | References ID on Construction Stages |

| Field | Type | Key | Default | Context |
|--------------|-----------|-------|---------|--------------|
| Roles | | | | |
| id | Increment | [Pri] | | |
| name | Varchar | | | Name of Role |
| nice_name | Varchar | | | Nice Name |

Sub Contract Works

| | | | | |
|-------------|-----------|-------|--|-----------------------------|
| id | Increment | [Pri] | | |
| name | Varchar | | | Name of Works |
| cost | Int | | | Cost of works |
| activity_id | Int | [For] | | References ID on Activities |
| project_id | Int | [For] | | References ID on Projects |

Subscriptions [Pivot Table]

| | | | | |
|-----------------|-----|-------|--|--------------------------------|
| account_type_id | Int | [For] | | References ID on Account Types |
| network_id | Int | [For] | | References ID on Networks |

Temporary Works

| | | | | |
|-------------|-----------|-------|--|-----------------------------|
| id | Increment | [Pri] | | |
| name | Varchar | | | Name of Works |
| cost | Int | | | Cost of works |
| activity_id | Int | [For] | | References ID on Activities |
| project_id | Int | [For] | | References ID on Projects |

User Awards

| | | | | |
|-----------|-----------|-------|--|------------------------|
| id | Increment | [Pri] | | |
| user_id | Int | [For] | | References ID on Users |
| title | Varchar | | | Name of Award |
| institute | Varchar | | | Name of Institute |
| date | DateTime | | | Award date |

User Connections [Pivot Table]

| | | | | |
|-----------------|---------|-------|--|----------------------------|
| user_id_1 | Int | [For] | | References ID on Users |
| user_id_2 | Int | [For] | | References ID on Users |
| user_id_confirm | Boolean | | | Confirmation of Connection |
| user_id_confirm | Boolean | | | Confirmation of Connection |

User Educations

| | | | | |
|------------|-----------|-------|--|------------------------|
| id | Increment | [Pri] | | |
| user_id | Int | [For] | | References ID on Users |
| title | Varchar | | | Name of Award |
| institute | Varchar | | | Name of Institute |
| start_date | DateTime | | | Start date of course |
| end_date | DateTime | | | End date of course |
| desc | Text | | | Description of course |

| Field | Type | Key | Default | Context |
|------------------------------------|------------|-------|---------|---|
| User Experiences | | | | |
| id | Increment | [Pri] | | |
| user_id | Int | [For] | | References ID on Users |
| title | Varchar | | | Name of Award |
| company | Varchar | | | Name of Company |
| network_id | Varchar | [For] | | References ID on Networks if it exists |
| start_date | DateTime | | | Start date of job |
| end_date | DateTime | | | End date of job |
| desc | Text | | | Description of job |
| current | Boolean | | | Current Job? |
| Interests | | | | |
| id | Increment | [Pri] | | |
| name | Varchar | | | Name of interest |
| Interest_User [Pivot Table] | | | | |
| user_id | Int | [For] | | References ID on User |
| interest_id | Int | [For] | | References ID on Interests |
| Users | | | | |
| id | Increments | [Pri] | | |
| firstname | Varchar | | | Edward |
| lastname | Varchar | | | Stephenson |
| email | Varchar | | | edward.stephenson@me.com [used for login] |
| password | Varchar | | | Password |
| password_temp | Varchar | | | Store temporary password when changing |
| code | Varchar | | | Unique code when activating account |
| active | Boolean | | | Has user activated their account? |
| username | Varchar | | | Named profile link [not used for login] |
| headline | Varchar | | | E.g. Founder of MetiNet |
| location_current | Varchar | | | E.g. London, UK |
| tel | Varchar | | | +44(0)7724302647 |
| mobile | Varchar | | | +44(0)7724302647 |
| image | Varchar | | | File name for profile picture |
| bio | Text | | | Profile summary |
| online | Boolean | | | Is user online? |
| office_ext | Int | | | Extention number from office telephone |
| network_owner | Boolean | | | Did user create network? |
| network_role | Int | [For] | | References ID on Roles |
| network_location_id | Int | [For] | | References ID on Network Locations |
| update_location | Boolean | | | Automatically update "location_current" |
| net_private_profile | Boolean | | | Make profile private |
| net_undiscoverable | Boolean | | | Make profile undiscoverable |
| net_mail_new_conn | Boolean | | | Send email when receives a connection request |
| net_mail_connections | Boolean | | | Send email with updates about connections |
| net_mail_new_msg | Boolean | | | Send email when get a new internal message |
| net_mail_net_updates | Boolean | | | Send email with updates about network |

| Field | Type | Key | Default | Context |
|----------------------------------|----------|---------|---------|---|
| pm_auto_access | Boolean | | | Give automatic access to all new projects |
| pm_mail_daily_report | Boolean | | | Send email with daily updates about projects |
| pm_mail_daily_report_nothing_due | | Boolean | | Send email when nothing due |
| pm_mail_weekend | Boolean | | | Send email at weekends |
| pm_mail_task_complte | Boolean | | | Send email when tasks complete |
| mn_new_prods | Boolean | | | Send email about MetiNet new products |
| mn_new_prod_upd | Boolean | | | Send email about MetiNet product updates |
| mn_mail_tips | Boolean | | | Send email with tips of how to use MetiNet |
| mn_mail_tutorials | Boolean | | | Send email with tutorials of how to use MetiNet |
| last_activity | DateTime | | | Last time user did something |
| network_id | Int | [For] | | References ID on Networks |

| Field | Type | Key | Default | Context |
|-------|------|-----|---------|---------|
|-------|------|-----|---------|---------|

MetiNet

Collaborative Construction Solutions