PROJECT CONCAT

1.0

This document contains information about what Project Concat has in terms of parties, internal communication, objectives and milestones. It is written for any Concat-enthusiast. Together, we are creating something amazing.

SUMMARY

This document is about Project Concat. Project Concat is a project that is designed to develop the economically administrative programming language called "Scorpio", and the first edition of "Omnidroid", titled "Omnidroid Concat 1.0".

The parties involved with this project go by their collective names of "Management", "Information Technology", also known as "IT" and "Communications". Each party has their own set of responsibilities, but together in unison, the parties strive after milestones.

Via the portal, which one gains access to after acceptance of application, key subject matter of each party can be found. This is of use for, for example, operation "Common Ground", where the parties must gain an overall mutual understanding of each other's disciplines. There are also other types of communication, being formal e-mail correspondence (for communication with HR and communication between parties) and "The Newsletter".

Important objectives are the development of the language of "Scorpio" (with its compact dictionary for Concat 1.0), the conduction of a vote for the definitive administrative standards in terms of UX and the publication of Omnidroid Concat 1.0, written in the language of "Scorpio". The key milestones of these important objectives could be assigned to dates December 30th as the start date of the implementation of language and administrative standards, December 21st as "Voting Day" and January 26th as the date of publication of Omnidroid Concat 1.0.

In evaluation of the entire project, there are important questions to ask in regard to general organization, the content of the project and the product(s) of the project. This is touched upon in the epilogue of this document.

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PARTIES

In Project Concat, three parties collaborate in order to achieve the project its milestones. Each party is subdivided into different subdivisions. All in all, the three parties and their responsibilities in the project are:

- **Management**
  It is the responsibility of management to maintain project standards, to keep, analyze and evaluate the project its administration and to maintain proper working circumstances for all employees.
- **Communications**
  It is the responsibility of Communications to on the one hand conduct the research project titled *Administrative Demands* and on the other hand publicize information in regard to the development of programming language "Scorpio" and the administrative application that is developed in that language. It is why Communications, in this project, could be considered two different task forces working together in unison.

Council
Management

Administration
Management

Human Resources
Management

Project Management
Management

Representative
Communications

UX Management
IT

Redactor
Communications

Ambassador
Communications

Junior Front-end Developer
IT

Senior Back-end Developer
IT

Copywriter
Communications
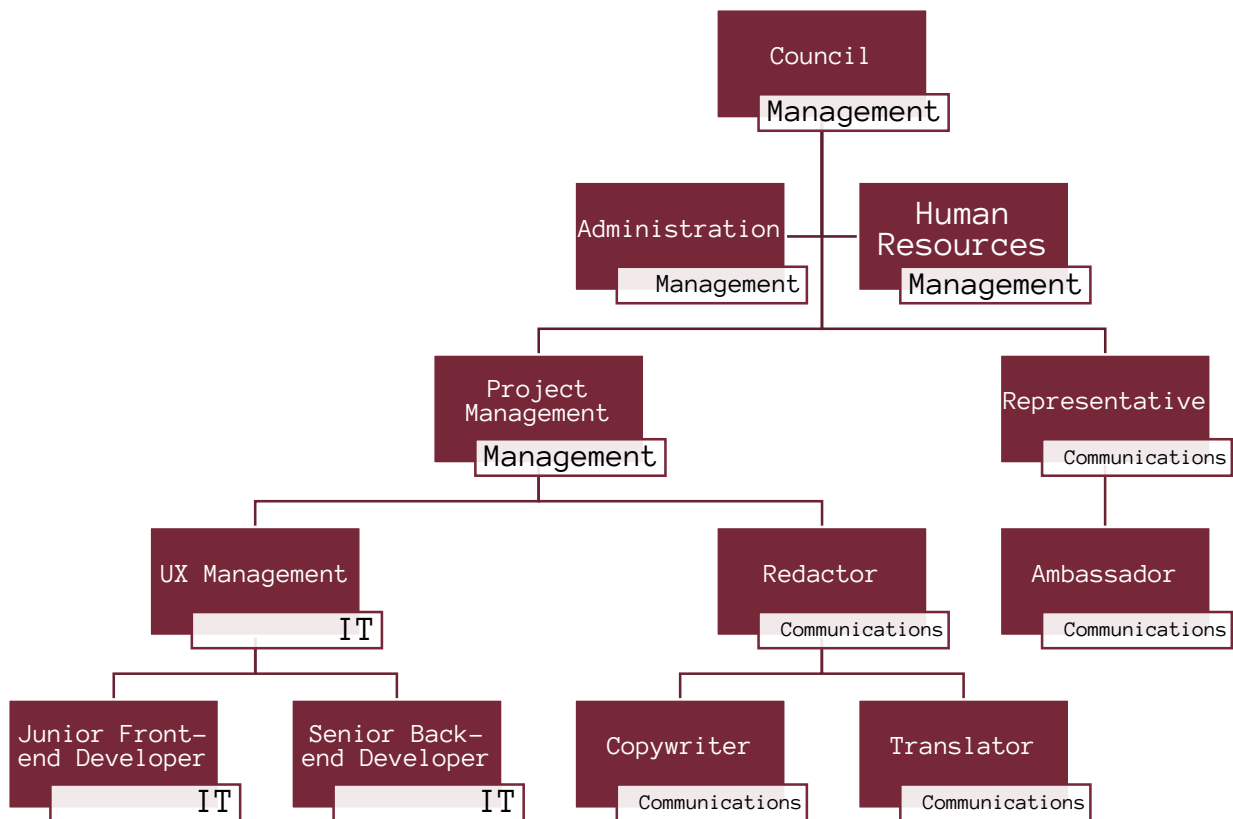
Translator
Communications

Figure 1 - The Organization

- **IT**
  It is the responsibility of IT to design our final product: a trial version of an administrative

application, written in its own administrative computer language. IT is the beating heart of this project.

COMMUNICATION

Via the Portal

- **Submission of Content**
  Upon acceptance of application, the members of the subdivisions of the departments gain access to the portal. This is for the reception of the employment contract, amongst many other things. There are, in the training phase of the program, assignments to submitted via the portal. As examples, the snippets of code that will be concatenated into one functional program and individual articles that make up one complete newsletter, are content that is submitted via the portal, with its receipts. (Inclusive of report of file size.)

- **The Vote**
  In terms of UX, all party members (and Concat enthusiasts, as well as members of the future Partnership Program) vote for the content of Omnidroid Concat 1.0. It is, in the end, too, about what it will contain in terms of "Scorpio".

- **Internal Communication**
  In the community section of the portal, each member of a party has one's own page. It is possible to send each other direct messages, which are considered as internal communication.

- **Subject of the Day**
  To contribute to the progression of the project, each party has its individual "Subject of the Day". This is managed centrally.

Other Types

- **Formal E-mail Correspondence**
  Sometimes, it is important to have formal receipts of the submission of information, for later reference. This applies to all communication from and to the subdivision of Human Resources and communications in between parties. For example in regard to "The Vote", when Communications passes its findings to IT, this is done with a formal e-mail instead of via internal messaging.

- **The Newsletter**
  The Newsletter is written for the members of the subdivisions of the parties and any Concat enthusiast. It includes the finest information that the members of the Party of Communications can find, as well as some subjects that are defined by the Party of Management.

OBJECTIVES

There are various types of objectives that are strived after by each party. These types of objectives could be described as:

- The assignments for all subdivisions of the three parties as the final goal of training
- The Internal Affair: the language of "Scorpio"
- The Vote: priorities for Concat
- The External Affair: market research

Each of these four objectives has its end product and milestones. This is strived after by the collaboration of the parties, as universal goals. Within the parties themselves, however, the contributions to the objective have their own means that relate to the industry of the subdivision. It is the responsibility of management to make these individual, party-based, contributions, one complete whole.

Management

Responsibility

A skill that the management party must develop in the training phase of Project Concat, is to, within a short amount of time, develop a thorough understanding of something that is not one's expertise. This to make well-founded management decisions with. "Scorpio" the programming language that must be developed in Project Concat. Our final product, the trial version of Omnidroid Concat (is Omnidroid Concat 1.0), is written in "Scorpio".

Training

- **Human Resources**: Recruitment, Training and Circumstances of Employment
- **Project Management**: Philosophy to Reach Milestones With
- **Administration**: Definition of Administrative Standards
- **Council**: "Omnidroid Concat 1.0"

In Focus: The Internal Affair

The language that is developed during Project Concat is the essence of the project. The essence of the project is in the hands of IT. It is, however, very important for the other parties within and outside the project to understand exactly what this language is (its syntax) and how it works (its semantics).

"Scorpio" is the name of the programming language that is developed during Project Concat. It is a language that is designed for reporting, retrieving and analyzing economic information. As is for all languages, efficiency is key.

An example of a case in which Scorpio could be used is the following:

A feature, "Feature X", of an application is the display of a balance of incoming and outgoing expenses. Within this feature, it is possible to sort by date, sort by size of expense and see term-based totals. The expenses are kept in a list with the following properties: name, value, direction, date and description.

Imagine that someone who uses Feature X has a hundred items in one's list, thirty of which are incoming and seventy are outgoing, in a term of two weeks. The individual would like to know what one's greatest outgoing expense of the last week was.

Now, Feature X must first order the list by greatest expenses and then take the index of the greatest outgoing expense of the last week, to, in a separate function, translate the data to strings: the information to be read by individual X.

If this were the core feature of the application, it is not the end of the world that it takes not more than one function to display information based on list data. But the feature is just the tip of the iceberg. It must be able to perform complete analyses based on periodic incoming and outgoing totals (within the same application).

Thus, the language developed must have its listener for potential scenarios (a frequently recurring request for a week's data). Scorpio must have its simple, pre-defined language for making calculations with list items. (The way to reference a list item (as a variable) must be shorter than it is with the popular existing programming languages.)

Examples of other cases are:

- Working with modular calculations ("calculate the total of my shopping list")
- To keep a neat record of custom made categories (this is intuitive)
- To display cloud-saved data in a graph (cross-platform)

For "Scorpio", the great focus is on IT. What do junior front-end programmers find comfortable programming with? What do senior back-end developers find the most efficient? The judgment thereof is passed by our appointed UX managers: a programming and design specialist in IT and an economist who knows IT. (This makes it important to not hire one-sidedly.)

We would like people to, in the future, write their own administrative modules in Scorpio. (This to be concatenated to their personal editions of Concat its core.) The conveyance of this information is part of the responsibility of our Party of Communications.

Our management is, initially, considered expert in management. But at the end of the project, our management must also have a thorough understanding of Scorpio.

Finalization of Project Concat 1.0

How have the challenges of recruitment and workflow turned out in practice?

<div align="center">IT</div>

Responsibility

There is a controversy. You see, we want to build something that we love and the people want and need. The conclusion that is drawn from the vote is pure IT.

Training

- **Assignment: for Junior Front-end Developers: The Olympiad**

  Training is evaluated with the use of an olympiad that tests language-insight and style of programming of our Junior Front-end Developers.

- **Assignment: for Senior Back-end Developers: The Evaluation**

  Our Senior Back-end Developers evaluate the olympiad from the perspective of the back-end.

- **Assignment: for UX Managers: The Essay**

  Our UX managers write an essay in evaluation of the evaluation of the back-end developers. The Technologicus uses the essays for reference in his paper.

In Focus: The Vote

We are developing software based on an impression of "Adminique Beta". Research is conducted in order to define production standards for that which is developed during project Concat.

Internally, people from various backgrounds, in terms of working experience and cultural and political backgrounds are hired.

In Production: Omnidroid Concat 1.0

That an account owner has one's data synchronized across all devices is very important. As well as personalizable notifications. Omnidroid Concat 1.0 must support the following features:

- Basic Module
  - Balance Management
  - Quick Oversight
  - Budget Management
- Business Module
  - Supply Chain Management
  - Asset Management
- Family Module
  - Shared Budgets
  - Shared Objectives

Responsibility

Maybe some day Scorpio will be compatible with universal programming language used by governments. It must be very well-documented. A colleague that refers a friend to fill out the research questionnaire could win a holiday together with that friend, funded by the project.

Another important thing is that after Project Concat, people could join the Partnership Program and basically purchase the power to concatenate some aspect of their business to the program.

Training

- **Copywriting**: articles about economics and IT
- **Translation**: international communication (between parties)
- **Ambassador and Representative**: administrative demands within and outside The Parties
- **Redaction**: community management that yields newsletters and more

In Focus: Administrative Demands

Documentation. After the official definition of administrative standards, they must be documented. This in such a way that IT could use this for reference.

The Announcement of Omnidroid Concat 1.0

Communications must present a marketing plan. Our Party of Communications is also the one to officially announce Omnidroid Concat 1.0.

Milestones

Project Concat knows three milestones: "completion of training", "finished production" and "published". Their descriptions and special dates are:

Training

- Description: each party has their training assignments, managed by human resources.
- December 1st: kickoff
- December 21st: assignments due & voting

Production

- Description: standards are defined based on the results of a vote.
- January 11th: submission day.

Publication

- Description: the production and delivery of the trial version of Omnidroid Concat.
- January 26th: publication day.
- January 28th: start marketing.

Trajectory

Training

Week 1 (December 1st – December 7th): **"Common Ground"**

- Election of representatives
- Introduction of project
- Introduction of workflows
- Distribution of "common knowledge" across parties

Week 2 (December 8th – December 14th): **"Syntaxis"**

- Development of Scorpio syntaxis
- Preparations for administrative standards vote

Week 3 (December 15th – December 21st): **"Semantics"**

- Development of Scorpio semantics
- Conduction of administrative standards vote

Week 4 (December 22nd – December 28th): **"Schedule Making"**

- Task distribution
- Schedules for January

Production

Week 5 (December 29th – January 4th): **"Writing"**

- Writing Omnidroid Concat based on the made schedule
- Dialogue texts

Week 6 (January 5th – January 11th): **"Writing"**

- Writing Omnidroid Concat based on the made schedule
- Documentation

Publication

Week 7 (January 12th – January 18th): **"Testing and Bugfixes"**

- Marketing plan

Week 8 (January 19th – January 25th): **"Evaluation"**

- Performance evaluation
- Presentation by management

Week 9 (January 26th – January 31st): **"Publication"**

- Finalization of project
- Publication of Concat 1.0
- Marketing

Important Dates

General Phases of Project

- <u>November 1st</u>: Start Marketing Phase
- <u>December 1st</u>: Start Training Phase
- <u>December 29th</u>: Start Production Phase
- <u>January 26th</u>: Start Publication Phase

Application Deadlines

- November 3: Deadline QC Applications
- November 5: Deadline Human Resources Officer Applications
- November 5: Deadline Administrative Officer Applications
- November 7: Deadline Project Management Applications
- November 7: Deadline Representative Applications
- November 10: Deadline Ambassador Applications
- November 13: Deadline Translator Applications
- November 13: Deadline Redaction Applications
- November 15: Deadline Copywriter Applications

- November 15: Deadline UX Manager Applications
- November 20: Deadline Junior Front-end Developer Applications
- November 20: Deadline Senior Back-end Developer Applications

Contract Initiation

- November 7: Contract Initiation of Human Resources
- November 7: Contract Initiation of Administrative Officer
- November 18: Contract Initiation of Council
- December 1: Contract Initiation of Project Management
- December 1: Contract Initiation of Copywriting
- December 1: Contract Initiation of Translating
- December 1: Contract Initiation of Ambassadorship
- December 1: Contract Initiation of Redaction
- December 1: Contract Initiation of Representation
- December 1: Contract Initiation of Junior Front-end Development
- December 1: Contract Initiation of Senior Back-end Development
- December 1: Contract Initiation of UX Management

Management

- December 1st: Project Introduction Event
- December 7th: "Party Standpoints"
- December 14th: "Syntaxis"
- December 14th: "Voting Standards"
- December 16th: First Poll
- December 21st: "Semantics"
- December 21st: Voting Day
- December 22nd: Task Distribution
- December 26th: "Design A Holiday Sweater" Contest
- December 28th: Schedules
- December 30th: Second Poll
- January 3rd: Dialogue Texts
- January 10th: Documentation
- January 13th: Suggestions
- January 17th: Marketing Plan

- January 26th: Publication Day
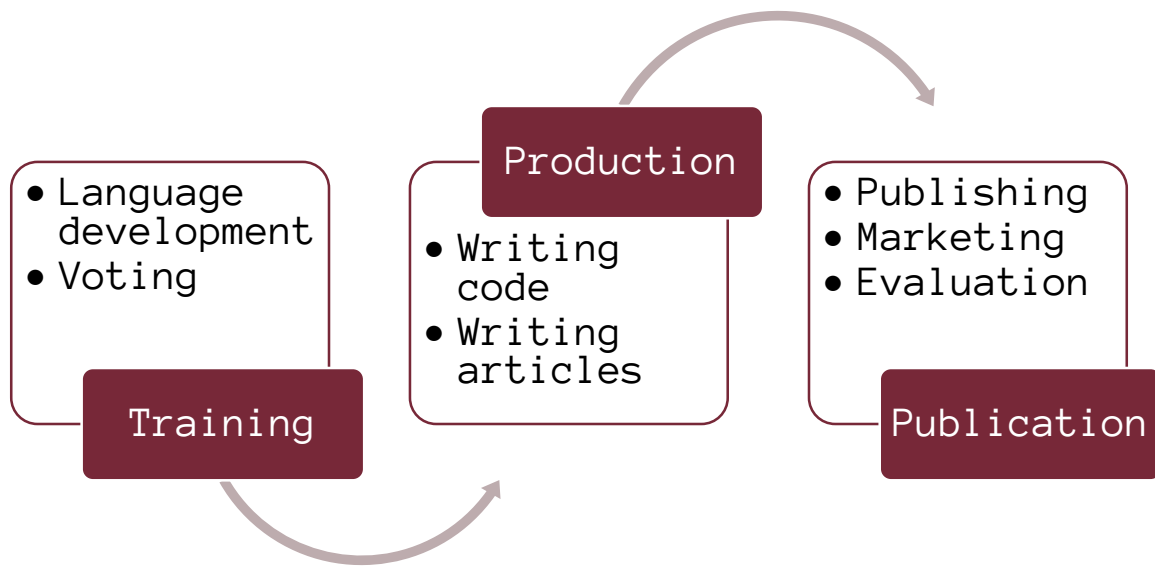- January 29th: Presentation Day

IT

- December 1st: Project Introduction Event
- December 7th: "Party Standpoints"
- December 14th: "Syntaxis"
- December 14th: "Voting Standards"
- December 16th: "Lil Dictionary"
- December 21st: "Semantics"
- December 21st: Voting Day
- December 22nd: Task Distribution
- December 28th: Schedules
- December 30th: Implementation of language and administrative standards
- January 3rd: Dialogue Texts
- January 10th: Documentation
- January 13th: Presentation Day
- January 17th: Marketing Plan
- January 26th: Publication Day
- January 30th: Game Day

Communications

- December 1st: Project Introduction Event
- December 7th: "Party Standpoints"
- December 14th: "Syntaxis"
- December 14th: "Voting Standards"
- December 16th: First Newsletter
- December 21st: "Semantics"
- December 21st: Voting Day
- December 22nd: Task Distribution
- December 26th: "Design A Holiday Sweater" Contest
- December 28th: Schedules
- December 30th: Publication of Voting Results
- January 3rd: Dialogue Texts

- **January 10th**: Documentation
- **January 13th**: Written Evaluation
- **January 17th**: Marketing Plan
- **January 26th**: Publication Day
- **January 31st**: Interviews

Training
- Language development
- Voting

Production
- Writing code
- Writing articles

Publication
- Publishing
- Marketing
- Evaluation

EPILOGUE

Are you a Concat-enthusiast? This document could have been more to-the-point. But we know that Concat 1.0 will be awesome regardless, because we are working together.

After the final evaluation, we must not be left with questions. Questions such as:

- **"Will there be a Concat 2.0?"** Additional staff must be hired for this. There is also – very important – the Partnership Program that is the centerpiece of Project Concat 2.0.
- **"What are the points of improvement?"** In other words: Project Concat was a short project with quite serious challenges. What have we learned from these challenges?
- **"Are we a family?"**
- **"Could I develop matchmaking software in Scorpio?"**