System Requirements
Group A4: Fast Track Malmö

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1 Background

The purpose of this project is to support a start up company with requirements engineering for their product idea. Our project team will work together with Fast Track Malmö, a startup accelerator in Malmö. Fast Track Malmö invests $30k in early stage startups in combination with mentoring and help with investor relations.

The project goal is to create an "operating system for accelerators" in order to simplify administrative tasks in the daily operations. One aim is to provide a tool for keeping track of the startups that apply to the accelerator. Another is to find a way to facilitate the process of connecting investors to suitable startups. These tasks are today performed manually through an e-mail client.

2 Goals

The goals for the system are stated in this section.

2.1 Business Goals

- **G1.** Build a world-class accelerator.
- **G2.** Attract more and better investors.
- **G3.** Venture Capitals should be able to find good investment opportunities through FTMO.
- **G4.** Make Skåne the startup capital of the world.

2.2 Product Goals

- **G5.** The product should streamline administrative workload.
- **G6.** The product should provide a better user experience for events e.g. notifications for meetings.
- **G7.** The product should facilitate communication between system manager, investors and startups.
- **G8.** The product should streamline events by means of functionality e.g. automatic rescheduling.
- **G9.** The product should be versatile, the system will be used to handle differing kinds of events e.g. single investor days, demo days etc.
- **G10.** The product should provide a fairer matchmaking system between startups and investors.

3 Product Description

This section gives an overview of the product domain,

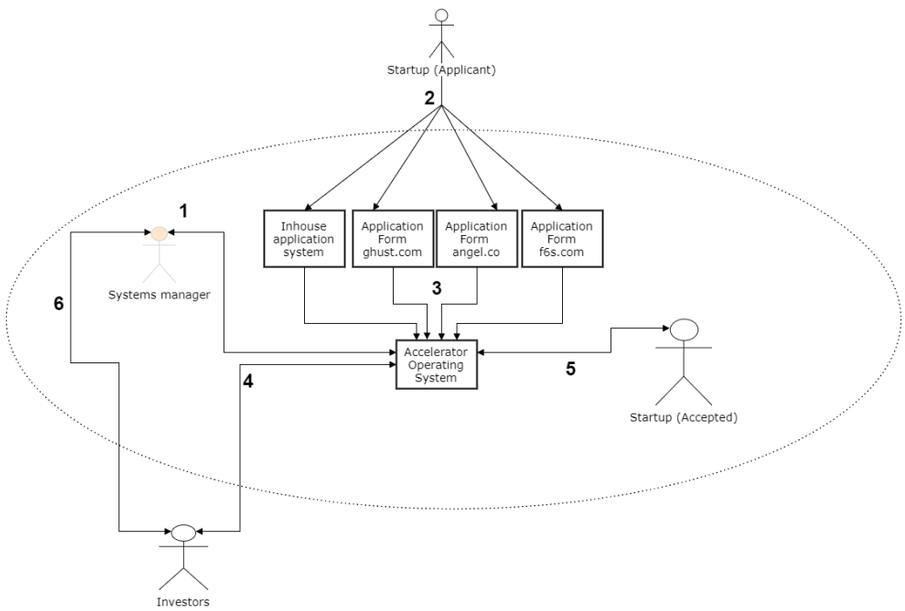

Figure 1: System context diagram

3.1 System Context

Figure 1 shows a context diagram for the system. The different entities presented in the diagram are as follows

- A System Manager interfaces with the product in his daily routine. This involves organizing application data from startups that are applying to the accelerator but also to connect startups with investors.
- Startup applicants apply to the accelerator via one of the domain application forms (inhouse application, Ghust, Angel or f6s). Domain form applications must integrate with the product.
- Startups that have been accepted to the accelerator use the product to describe themselves and market themselves towards investors.
- Investors search for startups using the product. Investors may interact with system manager for specific tasks.

4 Functional Requirements

These requirements are meant to give a more detailed picture of the product.

4.1 Human vs. Computer

The system exists for the reason of simplifying the work of matching investors to start-ups. However, the entire work cannot be done by the system without a little help from the outside.

R1. The work done by humans and computers should be divided as in Figure 2.
R2. The product shall have interfaces as shown in Figure 2.

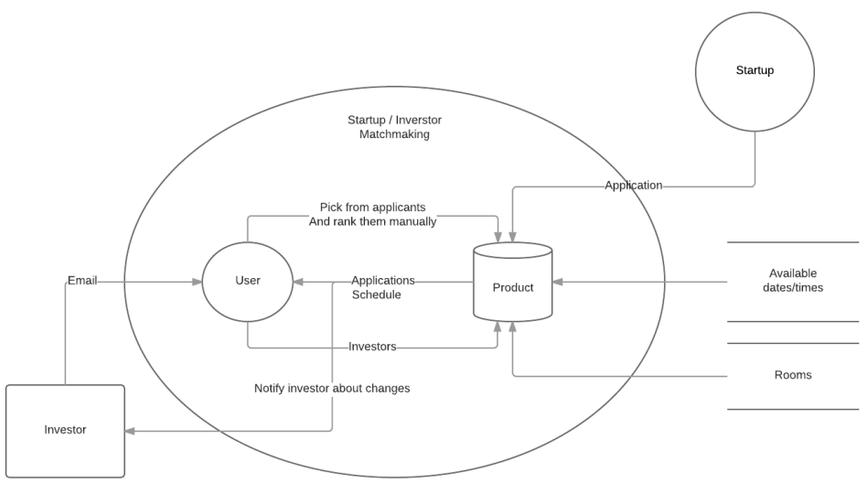

Figure 2: Split between human and computer labor

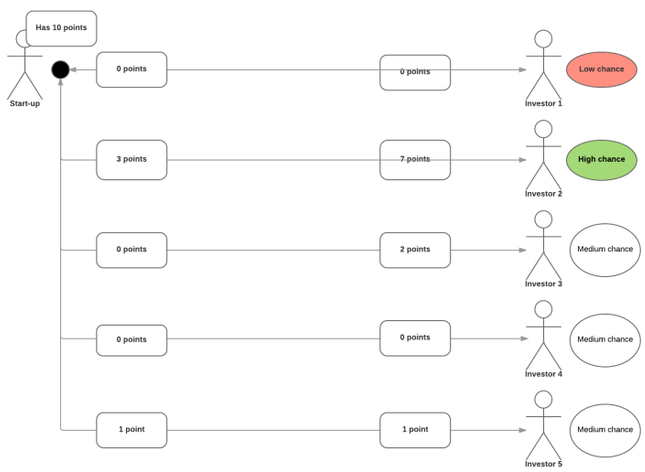

Figure 3: Example of a start-up and investors distribution of points and the outcome.

4.2 Features

R3. The system shall be able to automatically create a schedule for meetings between investors and start-ups based on the given data.
R4. The system shall be able to match investors with start-ups.
R6. Each start-up must distribute point over the investors they would like to talk to the most.
R7. Each investor must distribute point over the start-ups they would like to talk to the most.
R8. Only whole points can be distributed.
R9. The system shall match the start-up and investors based on the points given in R6 and R7.

R10. The system shall be able to update or create a new schedule in case of a sudden change from investors or start-ups.
R11. Investors and start-ups will be notified automatically by the system in case of an update in the schedule that affects them.
R11.5. The investors should be notified via mail in case of information about meetings etc.
R12. The user should be able to save investors and startups as favorites.
R13. A user should be able to create groups of startups. These could for example be used for companies that are going to a certain event.
R14. For enabling easy search through many startups, a filter function should exist where a user can filter on company name, budget range, capital raised, type of company, which event they have attended etc.
R15. New startups should be able to register on the website.
R16. There should be a button for generating a match between a random startup and investor.
R17.

4.3 Use case - Distribution of points

R20. The system shall support the use case described in Figure 3.

5 Data Requirements

The application form that startups use to apply for the accelerator centers around the Pitch Deck which is a pdf document describing the company business idea. Some other basic information is also included into the application like company name, founder information and contact details (webpage, e-mail). The database will contain Startup and Investor objects.

The application forms are currently hosted on 4 different platforms and differ somewhat in format. It is however possible to make sure that all forms are identical in order to have a coherent application system with a central database.

For each accelerator event, startups and investors are matched for a meeting. The Startup and Investor objects are thus connected to an event and matched by matchmaking software with regards to their rating of each other. A view of this part of the system is shown in figure 4.

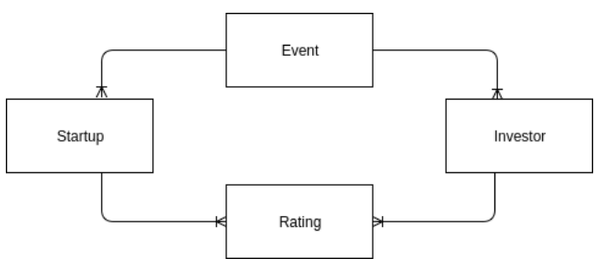

Figure 4: Matchmaking relations

The system will apart from matching investors with startups also schedule meetings given a number of conference rooms. This data is visualized in figure 5.

6 Quality Requirements

6.1 Quality Grid

Figur 6 shows the importance rating of each aspect in the ISO standard for quality.

7 Design-Level Requirements

8 Release planning

8.1 Release R1

- Business Goals are specified

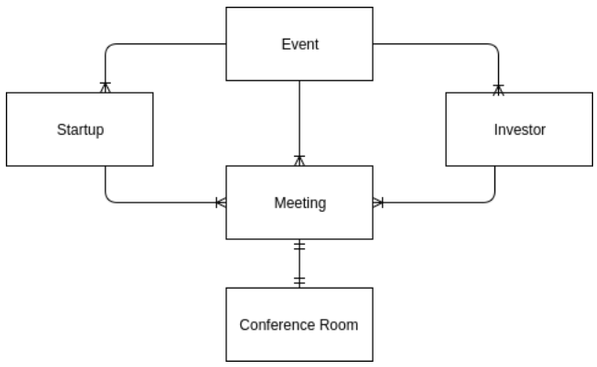

Figure 5: Scheduling relations

	Critical	Important	As usual	Unimportant	Ignore
Operation					
Integrity/security				X	
Correctness		X			
Reliability/availability				X	
Usability		X			
Efficiency			X		
Revision					
Maintainability			X		
Testability			X		
Flexibility		X			
Transition					
Portability				X	
Interoperability		X			
Reusability			X		X
Installability				X	

Figure 6: Quality Grid

- Some Functional Requirements are specified.
- Some High-level Data Requirements are specified

8.2 Release R2

- The elicitation is completed for ”subsystem 1”, partial complet for ”subsystem 2” and ”subsystem 3”
- Functional Requirements for ”subsystem 1” are specified and verified. Subsystem 1 consists of the frontend system with associated database. The database stores start ups and investors
- Data Requirements are specified and verified för subsystem 1.

8.3 Release R3

- Requirements for the whole system are elicitadet.
- A complete and prioritized subset of the requirements
- Design-level requirements are specified for the sub-set of requirements. Implemented as mock-up designs in using, e.g. screens and prototypes
- Some requirements for subsystem 2 and subsystem 3 are specified.

8.4 Future Releases

- High-level specification of functionality for subsystem 2 and 3.
- Simple model for stakeholders to verify functionality of whole system, i.e prioritzing of ranking, matching algorithm etc.