

# Dapper Project

## DP 02 Dapper - Members

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## Project Advisor

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## Group Meetings and Meetings with Advisor(s)

**March 4<sup>th</sup> 2023:** Research on market trends, competitor analysis and on strategies for launching a successful startup

**Summary of topics:** In this meeting, we met as a team to compare the research done individually by each team member and agreed on the information that would be included in the research report.

**March 11<sup>th</sup> 2023:** Domain Model

**Summary of topics:** In this meeting, we have realized the domain model for Dapper.

**March 14<sup>th</sup> 2023:** Business Process Model and Notation

**Summary of topics:** In this meeting, we have realized the Business Process Model and Notation depicting the possible steps a user could achieve when using Dapper and how the behavior expected from the application, delivery service when a user completes an order.

# Progress report

## 1. Recent progress

Over the past few weeks, we have made significant progress towards the development of Dapper. We started by creating a domain model that helped us identify the key entities, relationships, and behaviors of the system. This model helped us to gain a better understanding of the system's requirements and helped us to identify potential areas of improvement.

Additionally, we created a business process model notation (BPMN) diagram that describes the process flow of the Dapper application. This diagram helped us to visualize the different steps involved in the service, from the user's preferences to the final delivery of the personalized outfits.

Furthermore, we conducted extensive research on the fashion industry and how to launch a startup. This research helped us to gain insights into the latest fashion trends, the competition, and the challenges of launching a startup. We also analyzed the market to identify potential opportunities and challenges that we may encounter while launching Dapper.

We are excited about the progress we have made so far, and we look forward to continuing to develop Dapper into a successful and innovative service that provides personalized outfits to our users.

## 2. Future Plans

As we continue to develop Dapper, we are conducting extensive research into the latest technologies to ensure that our application is optimized for performance, scalability, and user experience.

For the database technology, we are exploring the use of NoSQL databases, such as MongoDB, to store and manage our data. These databases are highly scalable and can handle large amounts of unstructured data, which would be beneficial for our application's requirements. In addition, we are considering the use of GraphQL, a query language for APIs, to efficiently retrieve and update data from our database.

For the programming language, we are considering the use of Go, a highly performant and scalable language, that would be suitable for our application's requirements. Go has a strong emphasis on concurrency, which would allow us to handle multiple requests simultaneously, making our application faster and more efficient.

Regarding the tools and frameworks, we are considering the use of React Native for the mobile application, which would enable us to create a highly responsive and efficient user interface. We are also researching the use of Kubernetes for container orchestration, which would enable us to manage our application's infrastructure efficiently and ensure that it is highly available and scalable.

Finally, we are continuing to use Figma as our design tool to create a modern and intuitive user interface for our users. This tool enables us to collaborate on the design process, gather feedback from stakeholders, and make design improvements more efficiently.

In conclusion, as we move forward with the development of Dapper, we are committed to utilizing the latest technologies to optimize the performance, scalability, and user experience of our application.

### **3. Ethics and Equity**

During the planning of Dapper, we encountered several ethical issues that needed to be addressed. One of the concerns related to labor exploitation in the production of the outfits. We recognized the need to ensure that the clothes were produced in ethical and sustainable working conditions. Another ethical dilemma was related to the impact of fast fashion on the environment. It is important to ensure that the clothes were produced sustainably and responsibly, and that users were encouraged to be mindful of their environmental impact.

We also recognized that the service might not be accessible to individuals from lower socioeconomic backgrounds and those with non-mainstream body types or users that need access to gender non-confirming clothing. Therefore, we will emphasize the importance of making the service accessible and inclusive to individuals from all backgrounds.

To address these ethical concerns, several solutions could be implemented. We could adopt ethical sourcing and production policies and conduct regular audits of our suppliers to ensure compliance. We could also ensure that fair wages and benefits to our employees are offered and establish a code of conduct for our stylists and production staff to ensure that they are not overworked or pressured to churn out outfits at an unsustainable pace.

We could use sustainable materials and production methods to minimize the environmental impact of the service. We could also encourage users to recycle or donate unwanted clothes rather than throwing them away by rewarding them with credits or subscription after reaching a certain milestone of donations. Additionally, we could incorporate eco-friendly packaging and shipping practices into our operations to reduce our carbon footprint.

To ensure that the service would be accessible and inclusive, we could offer discounts or alternative payment options for individuals from lower socioeconomic backgrounds. We could also ensure that our stylists and production staff would follow a training to cater to individuals with non-mainstream body types and fashion preferences. We could also ensure to be partnered with influencers or individuals from diverse backgrounds to showcase a range of styles and cater to a wider audience.

Lastly, we could ensure that our algorithms would be transparent and auditable. We could conduct regular audits to identify and correct biases in our systems.