

CHINA EXPRESS

PROJECT PLAN



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CLIENT:

A new electronics and clothing shop “China Express” in Eindhoven

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TEAM:

Project Manager, Developer and Tester:

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CURRENT SITUATION:

ChinaExpress, a retail company, recently established its first physical store in Eindhoven, Netherlands. Presently, all transactions and customer interactions occur solely within the confines of this physical location. The store also only relies on physical documents for handling product sales.

PROBLEM DESCRIPTION:

The absence of an online platform presents several challenges for ChinaExpress. The inability to handle online shoppers restricts sales opportunities and undermines competitiveness in the digital age. Customers today expect the convenience of online shopping and easy access to product information, which ChinaExpress cannot provide without an online presence. This lack of digital engagement also puts ChinaExpress at a disadvantage compared to other retailers, both local and international, who have embraced digital platforms to expand their customer base and drive sales.

PROJECT GOAL:

The primary goal of the project is to establish a robust online presence for ChinaExpress by developing a comprehensive website. This website will serve as a digital extension of the physical store, providing customers with an accessible and convenient platform for browsing products, making purchases, and interacting with the brand. The website will offer a seamless shopping experience, bridging the gap between the physical and digital realms. In addition, there will also be a desktop application made for internal store use by the employees. Through the implementation of this desktop application, the management workflow will be optimized and the productivity will be maximized.

DELIVERABLES:

- Desktop Application (Product Management)
- Web Application (Online Shop)
- Ideation Document
- Project Plan
- URS
- Test Plan
- Test Report
- UML Class Diagram

NON-DELIVERABLES:

- Mobile Application
- User Manuals

CONSTRAINTS:

- Using the provided GitLab system by Fontys
- Cannot make use of an Object-relational mapping (ORM) such as Entity Framework
- Must have many-to-many database relationships
- Must have views with statistical information
- Must use C# programming language and ASP.NET web framework

PHASING:

Week	Phasing
1-3	Analysis
1	Creation of Ideation Document
1	Project Planning
2-3	Creation of Project Plan
3	Creation of UML Diagram & DB Diagram
4-7	Implementation
4	Creation of Database
4-5	Desktop app – Product Management & User Management
6	Desktop app – Order management
6	Web App – Registration and viewing Products
6-7	Web App – Order Placement
7	Creation of URS Document
7-11	Testing
7-8	Creation of Test Plan Document
8-11	Unit Testing
12-16	Finalization
12	Initial app deployment
12-14	Adding optional Features (Reviews/ Categories/ Features)
15	Finishing touches and bugfixing
16	Presentation

RISK ANALYSIS:

Risk	Risk Prevention	Mitigation Plan	Risk Frequency	Impact
Technical Challenges	Thorough planning and research	Break down tasks into manageable components. Seek assistance from online resources and forums.	Moderate	High
Time Constraints	Set realistic deadlines and milestones	Prioritize tasks based on importance and urgency. Consider simplifying features if necessary.	Moderate	High
Burnout	Maintain a healthy work-life balance	Schedule regular breaks and allocate time for relaxation and rejuvenation. Seek support from friends and family.	Low	Medium
Quality Assurance	Implement thorough testing procedures	Allocate time for testing and debugging.	Moderate	High

TEST STRATEGY:

- **Scope and objectives:** The scope of testing for the China Express project includes the verification and validation of the desktop and web applications to ensure they meet specified requirements and provide a seamless user experience.
- **Testing strategy:** The project will follow a waterfall testing methodology, with distinct phases for requirements gathering, design, implementation, testing, deployment, and maintenance. Each phase will be completed sequentially, with testing activities occurring after development is finished.
- **Testing Methods :**
 - Manual User Testing
 - Automated tests
- **Testing tools:** Microsoft Test (MsTest) will be utilized as the primary testing framework for executing and managing automated tests.
- **Test deliverables:**
 - Test Plan
 - Test Report