

Workshop 1 - Perfume Management System

Santiago Ávila - Santiago Sanchez - Sofia Ayala

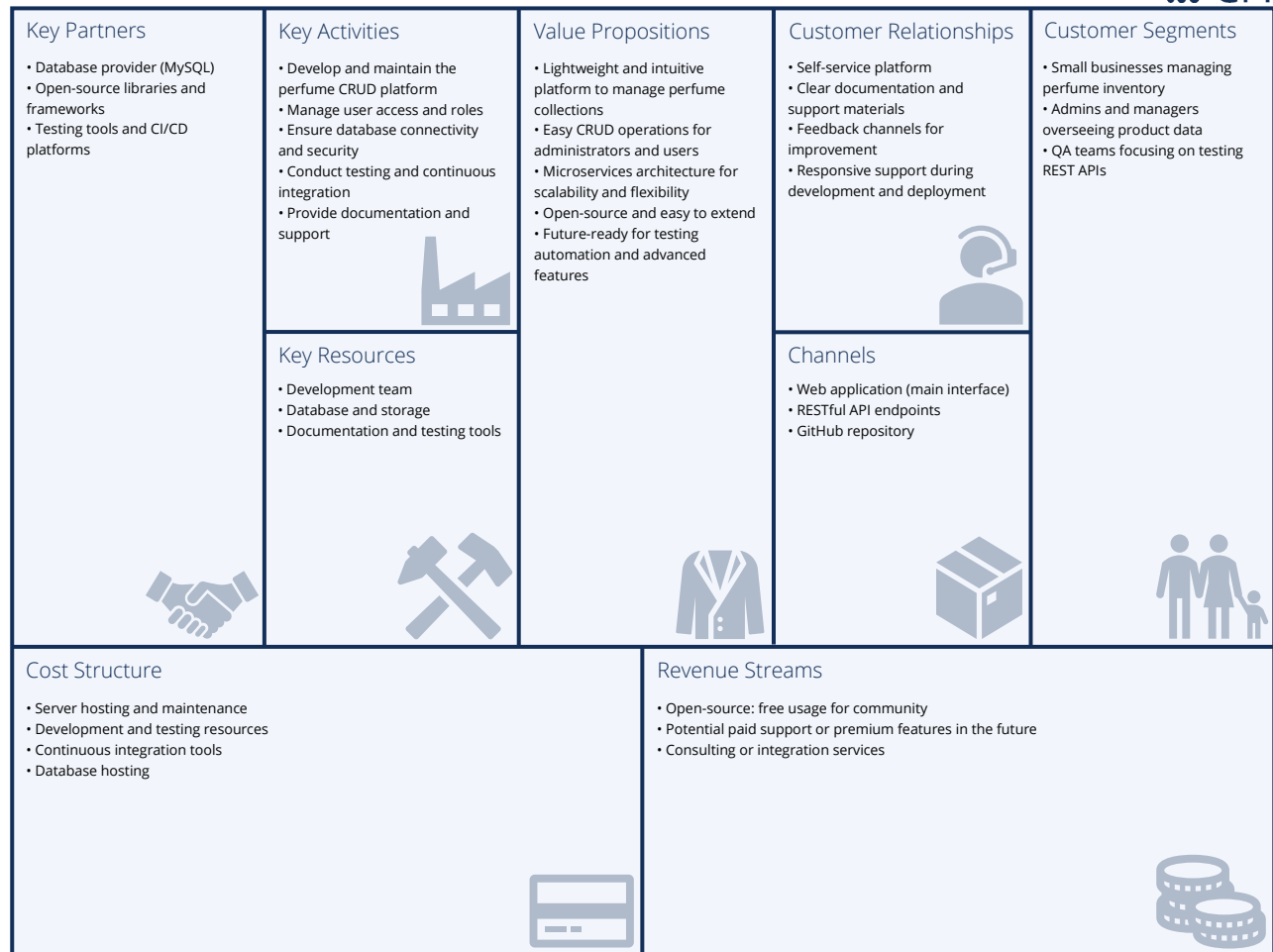
October 5, 2025

Contents

1	Business Model Canvas	2
1.1	Business Model	2
2	User Stories	4
2.1	User Stories Specification	4
3	User Story Mapping	9
3.1	User Story Mapping	9
4	CRC Cards	12
4.1	CRC Cards	12

1 Business Model Canvas

1.1 Business Model



2 User Stories

2.1 User Stories Specification

2 User Stories - Administrator Role

HU-001: Create Perfume Entries

Role	Administrator
Title	Create perfume entries
Description	As an administrator, I want to add new perfumes to the database so that the catalog is always up to date.
Acceptance Criteria	<ul style="list-style-type: none">• Admin can add a perfume with: name, brand, description, and price.• A success message is displayed after the operation.• Required fields must be validated.• Price must be a positive numeric value.
Priority	High
Estimation	5 story points

HU-002: Edit Perfume Details

Role	Administrator
Title	Edit perfume details
Description	As an administrator, I want to update perfume information so that errors can be corrected and data stays current.
Acceptance Criteria	<ul style="list-style-type: none">• Admin can edit existing fields.• Changes are reflected immediately.• Change history is maintained.• Data validation during editing.
Priority	High
Estimation	3 story points

HU-003: Delete Perfumes

Role	Administrator
Title	Delete perfumes
Description	As an administrator, I want to delete outdated or discontinued perfumes so that the catalog remains clean and relevant.
Acceptance Criteria	<ul style="list-style-type: none"> • Confirmation prompt before deleting. • Perfume is removed from the database. • Option for soft delete (recoverable). • Action is logged.
Priority	Medium
Estimation	2 story points

HU-004: Manage User Accounts

Role	Administrator
Title	Manage user accounts
Description	As an administrator, I want to create, update, and delete user accounts so that access to the system is controlled.
Acceptance Criteria	<ul style="list-style-type: none"> • Admin can list users. • Full CRUD operations on accounts. • User data validation. • Referential integrity control.
Priority	High
Estimation	8 story points

HU-005: View Activity Logs

Role	Administrator
Title	View activity logs
Description	As an administrator, I want to see a record of user actions so that I can audit system usage.
Acceptance Criteria	<ul style="list-style-type: none"> • Table with timestamps and user IDs. • Filters by date and action type. • Option to export logs. • Paginated results.
Priority	Medium
Estimation	5 story points

3 User Stories - Regular User Role

HU-101: View Perfume List

Role	Regular User
Title	View perfume list
Description	As a user, I want to view all available perfumes so that I can browse the products.
Acceptance Criteria	<ul style="list-style-type: none"> • Paginated list of perfumes. • Basic info visible: name, brand, price. • Sort by different criteria. • Configurable item limit per page.
Priority	High
Estimation	3 story points

HU-102: Search Perfumes

Role	Regular User
Title	Search perfumes
Description	As a user, I want to search by name, brand, or category so that I can find what I'm looking for.
Acceptance Criteria	<ul style="list-style-type: none"> • Dynamic result updates. • Search by name, brand, or category. • Response time under 2 seconds. • Proper handling of empty results.
Priority	High
Estimation	5 story points

HU-103: View Perfume Details

Role	Regular User
Title	View perfume details
Description	As a user, I want to see detailed information about a perfume so that I can learn more before deciding.
Acceptance Criteria	<ul style="list-style-type: none"> • Click to view full details. • Show name, brand, description, price. • Product images (if available). • View counter.
Priority	High
Estimation	2 story points

HU-104: Edit Personal Profile

Role	Regular User
Title	Edit personal profile
Description	As a user, I want to update my profile information so that my account remains accurate and secure.
Acceptance Criteria	<ul style="list-style-type: none"> • Update name, email, and password. • Email format validation. • Change confirmation. • Secure password handling.
Priority	Medium
Estimation	3 story points

4 Estimation Summary

Table 1: Story Point Summary by Role

Role	Total Story Points
Administrator	23
Regular User	13
Manager	19
Total	55

Table 2: Distribution by Priority

Priority	Number of Stories
High	6
Medium	4
Low	2
Total	12

3 User Story Mapping

3.1 User Story Mapping

Epic / Activity	Role	User Stories	Priority (Release)	Purpose / Expected Value
Catalog Management	Admin	Create perfume entries	Must-have (R1)	Keep catalog updated with new products
		Edit perfume details	Must-have (R1)	Correct errors or update existing data
		Delete perfumes	Must-have (R1)	Remove discontinued items to maintain relevance
		Bulk upload perfumes	Should-have (R2)	Speed up catalog management for multiple entries
		Add perfume images and categories	Could-have (Future)	Improve user experience and product presentation
User Management	Admin	Create, update, delete user accounts	Must-have (R1)	Control access to the system
		List all users	Must-have (R1)	View and manage registered accounts
		Assign user roles	Should-have (R2)	Define access permissions by role
		Reset user passwords	Could-have (Future)	Improve user account recovery
Perfume Browsing	Regular User	View perfume list (paginated)	Must-have (R1)	Explore available products easily
		Search perfumes by name, brand, or category	Must-have (R1)	Find items quickly
		View perfume details	Must-have (R1)	Access detailed information before buying
		Apply filters (price, brand)	Should-have (R2)	Refine search results

		Add to favorites or wish list	Could-have (Future)	Save products for later
Account Management	Regular User	Edit personal profile	Must-have (R1)	Maintain accurate and secure account info
		Upload profile picture	Should-have (R2)	Personalize user experience
		Manage notification preferences	Could-have (Future)	Customize communication settings
Reporting & Analytics	Manager	Generate perfume reports (CSV/PDF)	Must-have (R1)	Analyze key metrics (brand count, avg. price)
		Track inventory changes	Must-have (R1)	Monitor product additions/deletions
		Review most viewed perfumes	Must-have (R1)	Identify popular products for promotion
		Export graphs with visual trends	Should-have (R2)	Present data visually for decision-making
		Integrate with BI dashboards	Could-have (Future)	Advanced analytics integration

4 CRC Cards

4.1 CRC Cards

Class
Perfume
Responsibilities
<ul style="list-style-type: none">• Store perfume attributes (name, brand, description, price).• Provide CRUD operations through PerfumeService.• Handle validation of required fields.• Notify LogService when a perfume is created, updated, or deleted.
Collaborators:
PerfumeService, DatabaseManager, LogService.

Class
User
Responsibilities
<ul style="list-style-type: none">• Store user information (name, email, role, password).• Allow profile updates and authentication through AuthService.• Enforce validation rules (unique email, strong password).• Trigger logs for account actions.
Collaborators
AuthService, UserService, LogService, DatabaseManager.

Class
PerfumeService
Responsibilities
<ul style="list-style-type: none">• Manage catalog operations (add, update, delete, list perfumes).• Apply business rules such as price validation and uniqueness.• Interact with DatabaseManager to persist changes.• Send actions to LogService for auditing.
Collaborators
Perfume, DatabaseManager, LogService.

References

- [1] Corporate Finance Institute. (2019). *Business Model Canvas Examples*. CFI Education Inc. Recuperado de <https://corporatefinanceinstitute.com/resources/management/business-model-canvas-examples/>
- [2] UserTesting. (2024). *Product discovery process in Agile*. Recuperado de <https://www.usertesting.com/blog/product-discovery-process-in-agile>
- [3] Atenos. (s. f.). *User Story Mapping: Qué es y para qué sirve*. Recuperado de <https://atenos.com/agile/user-story-mapping-que-es-y-para-que-sirve/>