Hand Me Down Clothing Documentation

1 - Informative part

1.1 - Team

1.2.2 Need

The purpose of this section is to establish the fundamental needs that motivate the Hand Me Down project, expressed independently of any system-to-be. These needs are grounded in the resale domain and must reflect the concerns of students and families who participate in secondhand exchanges. The articulation of these needs will guide the subsequent development of domain descriptions, requirements, software architecture, and testing activities.

Stakeholders in this domain shall be understood as students and families seeking opportunities for affordable, accessible, and trustworthy secondhand exchanges. Their needs are not for a platform itself, but for solutions to the problems they encounter when attempting to exchange goods in local communities.

The following distinct needs are identified:

- Students and families must have affordable access to secondhand goods that support daily life, education, and well-being.
- Stakeholders must be able to rely on transparent information about the condition and history of pre-owned items.
- Exchanges shall be conducted in a manner that establishes trust, fairness, and safety between participants.
- Opportunities for accessibility and inclusivity must be available so that all families and students, regardless of economic background, will participate in the resale domain without barriers.
- Developers shall have clear requirements, descriptions, and architecture to build upon, since no structured system currently exists to organize this resale context.

These needs form the foundation for further project work. They are deliberately expressed at the domain level, independently of any particular solution, to ensure that subsequent design and implementation activities will remain aligned with the stakeholders underlying motivations.

2 - Descriptive part

2.1 - Domain description

2.1.2 - Terminology

The following terminology consolidates entities, events, functions, and behaviors in the domain. Each entry specifies the type of concept it represents and the phase in which it is introduced (domain, requirements, design, implementation). This approach avoids circular definitions and ensures alignment with both domain knowledge and system concerns.

Term	Concept Type	Phase Introduced	Definition / Notes
Donator	Entity	Domain	A person who provides clothing items for donation.
Collector	Entity	Domain	A person who purchases or claims a clothing piece. A person who will potentially purchase or claim a clothing piece.
Piece	Entity	Domain	An individual clothing item, defined independently of the system.
Listing	Representation	Design	A published representation of a Piece in the platform.
Donation	Event	Domain	Instantaneous occurrence when a Donator has just made a clothing item available.
Collection	Event	Domain	Instantaneous occurrence when a Collector has just taken possession of a Piece.
Condition Rating	Attribute / Function	Domain	A measure (e.g., scale 1-10) of quality for a Piece.
Review	Artifact	Domain	Annotation (usually written text) associated with a transaction that complements a rating.
Locale	Entity	Domain	Physical location or organization where donations are deposited or distributed.
Type	Attribute	Domain	Category of clothing (dress, pants, shirt, etc.).
rate(Piece, ConditionRating) → ConditionRating	Function	Design	Updates the condition rating of a Piece using the new rating value; no pre-existing rating is required.
donate(Piece, Donator, Locale) → Donation	Event Function	Design	Function that triggers the event of donation: "A Piece has just been donated by a Donator at a Locale."
donate(Piece, Donator, Collector) → Donation	Event Function	Design	Function that triggers the event of donation: "A Piece has just been donated by a Donator to a Collector."

Term	Concept Type	Phase Introduced	Definition / Notes
collect(Piece, Collector) → Collection	Event Function	Design	Triggers the event: "A Piece has just been collected by a Collector."

3 - Analytic part

3.1 - Concept analysis