**Required CRC cards**

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| **User** | |
| **Responsibility** | **Collaborators** |
| * Registers * Logs in * Logs out * Sells, buys, lends and rents items | * Product * Other users |

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| **Product (App)** | |
| **Responsibility** | **Collaborators** |
| * Provides sign up * Provides log in * Provides log out * Provides password reset * Encrypts login credentials * Shows transaction history * Shows points in wallet * Enables users to sell, buy, lend and rent items * Manages user data * Restricts user access | * User * user-signup * user-login * user-account * auth.Service |

**Authentification Example**

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| **auth.service** | |
| **Responsibility** | **Collaborators** |
| * Keep track if user is logged in * Informs if login status changes | * User-login * Product (app) |

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| **User-login** | |
| **Responsibility** | **Collaborators** |
| * Checks user status * Logs user in * Logs user out * Accesses secured endpoint * Updates user status to subscribers | * auth.service * Product (app) |

CRC Cards For Backend

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| User | |
| Responsibilities | Collaborators |
| * Define User Attributes | * Product |
| * User Login | * Login |
| * User Registration | * Purchase |

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| Login | |
| Responsibilities | Collaborators |
| * Login-Response   + User   + Token   + message | * User |
| * Login-Request   + username   + password |  |

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| Purchase | |
| Responsibilities | Collaborators |
| * Wallet operations:   + Purchase operation   + Decreement buyer wallet   + Increement seller wallet   + Check for enough points | * Product |
| * Wallet attributes | * User |

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| Product | |
| Responsibilities | Collaborators |
| * Product Attributes | * User |
| * Add Product | * Purchase |
| * Remove Product | * Catalog |
| * Edit Porduct | * Admin |

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| Admin | |
| Responsibilities | Collaborators |
| * Admin Attributes | * Admin (frontend) |
| * Approval Products | * Product |
| * Manage Product list | * Login |

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| Access | |
| Responsibilities | Collaborators |
| * Secure Log-in | * Login |
| * Secure Endpoint | * User |

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| Check Registration | |
| Responsibilities | Collaborators |
| * Check for unique Username | * User |
| * Check for unique E-Mail |  |

CRC Cards For Frontend

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| Admin | |
| Responsibilities | Collaborators |
| Judge if posts respect website’s rule | Approval |
|  | Product |

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| Catalog | |
| Responsibilities | Collaborators |
| Displays all product which are marked as visible on the market | ProductList |
| Displays the products based on filter choosed by the user | Product |

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| Not-found | |
| Responsibilities | Collaborators |
| It is a dummy class, it is a generic pages which tells that the page is not found or not accessible. |  |

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| Approval | |
| Responsibilities | Collaborators |
| It is an enum which stores ether approved, rejected or pending | Admin |

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| testsignup | |
| Responsibilities | Collaborators |
| Let the user register an account on the webpage | user |

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| User account | |
| Responsibilities | Collaborators |
| Displays information about the user’s account:   * Wallet * User’s dashboards | Admin |
| Let the logged in user post product | User |
| Let the logged in user edit his products | Product |
| On the dashboards it is possible to see the list of posted Items, sold history, lent Items and purchase history | CurrentUser |