Use case tables

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| Request Equipment | |
| Description | A member requests a piece of equipment for use. |
| Actors | Member 1, Member 2, Equipment |
| Basic flow of events | 1. Member 1 selects a piece of equipment to borrow. 2. Member 1 sends a request to the owner of the equipment (Member 2). 3. Member 2 accepts the request, and thus the equipment can be booked. |
| Alternative flow(s) of events | Member 2 doesn’t accept the request   1. Member 1 selects a piece of equipment to borrow. 2. Member 1 sends a request to the owner of the equipment (Member 2). 3. Member 2 rejects the request, and thus the equipment cannot be booked by Member 1. |
| Pre-conditions to use case | 1. Both are members of the system 2. Member 2 accepts the request |
| Post-conditions to use case | Equipment is booked, with Member 1’s balance checked, each member’s balance is updated, and the booking is scheduled |
| Special requirements | None |

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| Book Equipment | |
| Description | A member books another member’s piece of equipment for use. |
| Actors | Member 1, Member 2, Equipment |
| Basic flow of events | 1. Member 1 selects the dates for which they want to borrow the equipment 2. Member 1 and member 2’s balances are provisionally updated 3. Member 1’s balance is checked, and they have sufficient funds to borrow the equipment |
| Alternative flow(s) of events | Member 1 has a balance that will be negative   1. Member 1 selects the dates for which they want to borrow the equipment 2. Member 1 and member 2’s balances are provisionally updated 3. Member 1’s balance is checked, and it would be negative if the transaction was executed 4. The transaction is prohibited |
| Pre-conditions to use case | Both are members of the system |
| Post-conditions to use case | Member 2 can confirm the transaction if they are satisfied with the lending, and the transaction is then executed |
| Special requirements | None |

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| Confirm transaction | |
| Description | The member who is a recent lender can confirm they are satisfied with the lending |
| Actors | Member1, Member 2 |
| Basic flow of events | 1. Member 1 chooses an option to confirm a transaction 2. Member 1 confirms they are satisfied with the lending of their equipment to Member 2 3. The transaction is executed |
| Alternative flow(s) of events | Member 1 isn’t satisfied   1. Member 1 chooses an option to confirm a transaction 2. Member 1 confirms they are not satisfied with the lending of their equipment to Member 2 3. The transaction is not executed |
| Pre-conditions to use case | Member 1 has recently lent equipment to Member 2 |
| Post-conditions to use case | Each Member’s balance is now updated permanently following the transaction being executed |
| Special requirements | None |

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| Add Equipment | |
| Description | A member adds a piece of equipment for use by other users, along with suitable information. |
| Actors | Member, Equipment |
| Basic flow of events | 1. The member selects an option to add a piece of equipment to the system. 2. The member enters all the relevant information: equipment type, name, description, image (if available), daily Florin rate, calendar dates equipment is available 3. The equipment is added to the system |
| Alternative flow(s) of events | The user enters invalid information   1. The member selects an option to add a piece of equipment to the system. 2. The member enters all the relevant information but leaves a field blank/enters an invalid postcode 3. The system prompts the member to enter valid information |
| Pre-conditions to use case | The member has an account on the system |
| Post-conditions to use case | The equipment can now be borrowed by other members |
| Special requirements | None |

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| Remove Equipment | |
| Description | A member removes a piece of equipment from the system. |
| Actors | Member, Equipment |
| Basic flow of events | 1. The member selects a piece of equipment to remove that they’ve previously listed 2. The member chooses the option to remove that piece of equipment from the system 3. The piece of equipment is removed from the system |
| Alternative flow(s) of events | The member has already agreed to lend the equipment to another user   1. The member selects a piece of equipment to remove that they’ve previously listed 2. The member chooses the option to remove that piece of equipment from the system 3. The piece of equipment is not removed from the system, and the member is prompted that it can’t be removed until it has been borrowed and returned |
| Pre-conditions to use case | The member has at least one piece of equipment listed |
| Post-conditions to use case | The piece of equipment will no longer be available to be borrowed |
| Special requirements | None |

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| Adjust Available Dates | |
| Description | A member changes the dates for which a piece of equipment is available. |
| Actors | Member, Equipment |
| Basic flow of events | 1. The member selects a piece of equipment that they have listed to be borrowed 2. The member selects the option to adjust the dates on which it can be borrowed 3. The member changes the dates |
| Alternative flow(s) of events |  |
| Pre-conditions to use case | The member has at least one piece of equipment listed |
| Post-conditions to use case | Another member wanting to borrow the equipment can do so on the updated dates |
| Special requirements | None |

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| Check Balance | |
| Description | A member is able to check their current Florin balance |
| Actors | Member |
| Basic flow of events | 1. The member logs on to their account 2. The member chooses an option to view their account balance 3. The account balance is displayed to them |
| Alternative flow(s) of events | 1. The member fails to log in to their account |
| Pre-conditions to use case | The member has an account on the system |
| Post-conditions to use case |  |
| Special requirements | None |

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| Set Daily Florin Rate | |
| Description | The administrator sets the daily Florin rate for equipment |
| Actors | Administrator |
| Basic flow of events | 1. The administrator chooses an equipment type 2. The administrator enters the daily Florin rate for the equipment |
| Alternative flow(s) of events |  |
| Pre-conditions to use case | The daily Florin rate for an equipment type is decided by the committee |
| Post-conditions to use case | Any member who wants to borrow a piece of equipment of that type has to pay the new Florin rate |
| Special requirements | None |

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| Reinstate Member | |
| Description | The administrator reinstates a member after they have successfully appealed a ban. |
| Actors | Administrator, Member |
| Basic flow of events | 1. The administrator chooses the option to view a list of users with locked accounts 2. The administrator selects the account to be unlocked 3. The administrator chooses the option to unlock the user’s account |
| Alternative flow(s) of events |  |
| Pre-conditions to use case | A member’s appeal to the committee is successful |
| Post-conditions to use case | The account is unlocked and can be used again |
| Special requirements | None |

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| Create Account | |
| Description | Member creates an account, entering all the relevant details. |
| Actors | Member |
| Basic flow of events | 1. Member chooses option to create new account 2. Member enters their name, age, address, postcode, email address and available equipment they have 3. New account is created 4. Member is given unique member ID and account number |
| Alternative flow(s) of events | Member enters invalid information   1. Member chooses option to create new account 2. Member enters their name, age, address, postcode, email address and available equipment they have 3. Some information is invalid (i.e. postcode, leaving a field blank) 4. New account is not created and an indication is output to the member |
| Pre-conditions to use case |  |
| Post-conditions to use case | 20 Florin’s are added to the new member’s balance |
| Special requirements |  |

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| Add 20 Florins | |
| Description | Adds 20 Florins to each account created |
| Actors | Member |
| Basic flow of events | 1. 20 Florins are added to the new member’s account |
| Alternative flow(s) of events |  |
| Pre-conditions to use case | A new user account is created |
| Post-conditions to use case | Account is ready for use |
| Special requirements | Included with Create Account |