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| Use case | Register |
| Actors | New User |
| Precondition | The user is a new user who does not have an account. |
| Postcondition | The user has a new account and is logged into the system as an old user. |
| Basic path | * The new user clicks on the "Register" button. * The system displays a registration form. * The new user enters their information into the registration form, including their username, password, and email address. * The new user clicks on the "Submit" button. * The system validates the user's information. * If the user's information is valid, the system creates a new account for the user and logs them into the system. * The system displays a welcome message to the user. |
| Alternative path | * The new user clicks on the "Cancel" button instead of the "Submit" button. * The system does not create a new account for the user and does not log them into the system. * The system validates the user's information. * The system creates a new account for the user and logs them into the system. * The system displays a welcome message to the user |
| Exceptional path | * The new user enters invalid information into the registration form. * The system displays an error message to the user. * The new user corrects the invalid information and resubmits the form. |

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| Use case | Login |
| Actors | Old User |
| Precondition | The user has not log into the system |
| Postcondition | The user has logged into the system |
| Basic path | * The user enters their login information. * The user clicks on login. * The system validates the user’s login information. * The user’s login information is valid, the system logs them in   The system displays a welcome message |
| Alternative path | * The user clicks on the “Forget password” button. * The system display security question * The user enters their security answer. * The system prompts the user to enter a new password. * The user enters their new password. * The system saved their new password.   The system logs them in and displays a welcome message |
| Exceptional path | * The user enters invalid login information. * The system displays an invalid message to the user. * The user corrects the invalid login information. * The system validates the login information.   The system logs them in and displays a welcome message |

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| Use Case | Upload bahan makanan ke database |
| Actors | Old User |
| Pre-condition | * The user has been authenticated and has appropriate permissions. * The system is operational and capable of receiving uploads. * The material to be uploaded meets the required format and criteria. |
| Post-condition | * The material has been successfully uploaded to the database. * The user receives confirmation of the successful upload. * The material is accessible for future use. |
| Basic-Path | * The user selects the option to upload material to the database. * The system displays the upload interface. * The user chooses the material file to upload. * The user fills in the required metadata or description for the material. * The user confirms the upload. * The system validates the uploaded file and metadata. * The material is stored in the database. * The system confirms successful upload to the user. * Use case completed. |
| Alternative-Path | * If the system detects errors in the uploaded file or metadata: * The system prompts the user to correct the errors. * The user corrects the errors and submits again. * The system revalidates the corrected file and metadata. |
| Exceptional Path | * If the user encounters technical issues or errors in selecting the file: * The user attempts to select the file again. * If the problem persists, the user may try using a different browser or device. * If the user encounters technical issues or errors in selecting the file: * The user attempts to select the file again. * If the problem persists, the user may try using a different browser or device. |

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| Use Case | Melihat Bahan yang Sudah Diupload ke Database |
| Aktor | Old User |
| Pre-Condition | * The user has been authenticated and has appropriate permissions. * The system is operational and can access the database. * At least one material has been uploaded to the database. |
| Post-Condition | * The user can view a list of materials that have been uploaded to the database. * The user can view details of the desired material. * Use case completed. |
| Basic Path | * The user selects the option to view materials already uploaded to the database. * The system displays a list of uploaded materials. * The user selects a specific material from the list. * The system displays the details of the selected material. * The user closes the detail view. * Use case completed. |
| Alternative Path | * If there are no materials uploaded to the database: * The system displays a message stating that no materials are available. * The process ends. |
| Exceptional Path | * If a connection failure to the database occurs: * The system displays an error message. * The process ends. |

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| Use Case | Generate Personalized Recipe |
| Actor | Old User |
| Pre-Condition | * The user has been authenticated and has appropriate permissions. * The system is operational and can access the material database. * At least one material has been uploaded to the database. |
| Post-Condition | * The user receives food recipe recommendations based on available ingredients. * The user can view details of the generated recipes. * Use case completed. |
| Basic Path | * The user selects the option to generate food recipes using available ingredients. * The system displays a list of available ingredients. * The user selects the ingredients they want to use for generating recipes. * The user confirms the selection of ingredients. * The system generates food recipes based on the selected ingredients. * The system displays a list of generated recipes. * The user selects a specific recipe from the list. * The system displays details of the selected recipe. * The user closes the detail view. * Use case completed. |
| Alternative Path | * If there are no ingredients available in the database: * The system displays a message stating that no ingredients are available. * The process ends. |
| Exceptional Path | * If the user is not authenticated: * The system prompts the user to authenticate. * The user authenticates. * If no recipes can be generated based on the selected ingredients: * The system displays a message stating that no recipes can be generated. * The user can choose different ingredients or close the feature. * The process ends. * If a connection failure to the database occurs: * The system displays an error message. * The user can retry or contact support. * The process ends. |