**Use case definitions**

**1. Select Media Type**

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| **Actor** | **User** |
| **Pre-conditions** | **User is on the main page.** |
| **Post-conditions** | **Media type is selected** |
| **Basic flow** | **1-User navigates to the main page.**  **2-User selects the media type.** |
| **Relationship** | **User - Main Page: The user interacts with the main page to navigate to different sections, including selecting the media type.** |

**2-Enter the Media**

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| **Actor** | **User** |
| **Pre-conditions** | **User has selected a media type.** |
| **Post-conditions** | **Media is entered.** |
| **Basic flow** | **-User selects a media type. -User enters the media.** |
| **Relationship** | **User - Selected Media Type:**  **The user's action of selecting a media type is a prerequisite for entering the media.**  **User - Media Entry:**  **The user interacts with the system to input or provide the media content.** |

**3-Sign In or Sign Up**

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| **Actor** | **User** |
| **Pre-conditions** | **User is on the main page.** |
| **Post-conditions** | **User is signed in or signed up** |
| **Basic flow** | **-User navigates to the main page.  -User chooses to sign in or sign up.** |
| **Relationship** | **User - Main Page:**  **The user's action of navigating to the main page is a prerequisite for signing in or signing up.**  **User - Authentication status:**  **The user interacts with the authentication system during the sign-in or sign-up process** |

**4-Select Subscription Plan**

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| **Actor** | **User** |
| **Pre-conditions** | **User is signed in or signed up.** |
| **Post-conditions** | **User is subscribed to a plan.** |
| **Basic flow** | **-User signs in or signs up.  -The system displays available subscription plans. -User selects a subscription plan based on their preferences. - User makes a payment.** |
| **Relationship** | **User - Authentication Status:**  **The user's sign-in or sign-up status is a prerequisite for subscribing to a plan. User - Subscription Page:**  **The user interacts with the subscription page to choose a plan**  **User - Payment System:**  **The user interacts with the payment system during the subscription process.** |

**5-Logout**

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| **Actor** | **User** |
| **Pre-conditions** | **User is signed in** |
| **Post-conditions** | **User is logged out** |
| **Basic flow** | **-The user, already signed in, clicks on the "Log Out" option.**  **-The system receives the log-out request from the user.**  **-The system updates the user's session status to indicate a logged-out state.**  **-The user is successfully logged out.**  **-The system provides feedback to the user, confirming the successful log-out.** |
| **Relationship** | **User - Authentication Status:**  **The user's sign-in status is a prerequisite for logging out.**  **User - Session Management:**  **The user's session is managed during the logout process.** |

**6-Show History (Page)**

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| **Actor** | **User** |
| **Pre-conditions** | **User is signed in.** |
| **Post-conditions** | **User views the history page.** |
| **Basic flow** | **-The user, who is already signed in, navigates to the section or option that allows them to view the history. This could be a button or a link labeled "Show History."**  **-The system recognizes the user's request to view the history and checks for an active session.**  **-If the user has an active session, the system proceeds to the next step.**  **-If the user doesn't have an active session, they may be prompted to sign in again.**  **-The system grants access to the history component since the user has a valid session.**  **-The user interacts with the history component, which could involve navigating through a list of historical data or specifying parameters for the history they want to see.**  **-The system retrieves and displays the relevant history information based on the user's request.**  **-The user views the history page, containing the requested historical data.** |
| **Relationship** | **User - Session:**  **The user needs an active session to access the history page.**  **User - History Component:**  **The user interacts with the history component during the process.** |

**7-Show Profile Info**

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| **Actor** | **User** |
| **Pre-conditions** | **User is signed in** |
| **Post-conditions** | **The user views their profile information.** |
| **Basic flow** | **-The user, already signed in, navigates to the profile section.**  **-The system displays the user's profile information.** |
| **Relationship** | **User - Profile Component: The user interacts with the profile component during the process, indicating a relationship with the profile feature.** |

**8-Edit profile**

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| **Actor** | **User** |
| **Pre-conditions** | **User is signed in.** |
| **Post-conditions** | **The user successfully updates their profile information.** |
| **Basic flow** | **-The user, already signed in, navigates to the profile section.**  **-The system displays the user's current profile information.**  **-The user selects the option to edit their profile.**  **-The system presents a form with the user's current information for editing.**  **-The user makes desired edits and submits the form.**  **-The system verifies and updates the user's profile information.**  **-If the update is successful, the system notifies the user.**  **-If there are errors, the system displays error messages and prompts the user to correct them** |
| **Relationship** | **User - Profile Component: The user interacts with the profile component to make changes, establishing a relationship with the profile editing functionality** |

**9-Select Payment Method**

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| **Actor** | **User** |
| **Pre-conditions** | **User has selected a subscription plan.** |
| **Post-conditions** | **User has chosen a payment method, and the subscription is activated.** |
| **Basic flow** | **-After selecting a subscription plan, the user proceeds to the payment step.**  **-The system presents various payment methods (credit card, PayPal, etc.).**  **-User selects their preferred payment method.**  **-The system processes the payment and activates the chosen subscription plan.** |
| **Relationship** | **User - Payment Process:**  **The user interacts with the system to choose a payment method and complete the subscription process** |

**10-Cancel Plan:**

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| **Actor** | **-User** |
| **Pre-conditions** | **User has an active subscription.** |
| **Post-conditions** | **User's subscription is canceled.** |
| **Basic flow** | **-User navigates to the subscription management section.**  **-The system displays the user's active subscription details.**  **-User selects the option to cancel the subscription.**  **-The system processes the cancellation request.**  **-The user's subscription is canceled, and they no longer have access to the subscribed features** |
| **Relationship** | **User - Subscription Management:**  **The user interacts with the system to manage their subscription, including canceling the plan.** |

**Admin :Sign In**

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| **Actor** | **Admin** |
| **Pre-conditions** | **The admin is registered in the system with valid credentials.** |
| **Post-conditions** | **-Admin is signed in. -The admin gains access to the admin dashboard.** |
| **Basic flow** | **-The admin navigates to the admin sign-in page.**  **-The system presents a form for the admin to input their credentials (username and password)**  **-The admin enters their valid credentials.**  **-The system verifies the admin's credentials.**  **-If the credentials are valid, the system grants access to the admin dashboard.**  **If the credentials are invalid, an error message is displayed, and the admin is prompted to re-enter their credentials** |
| **Relationships** | **Admin - Authentication status: The admin interacts with the authentication module during sign-in. This relationship signifies the involvement of the authentication system.**  **//Admin - Session: A session is established upon successful sign-in, allowing the admin to interact with the system, indicating a dependency on the session management component.** |

**-Analytics Report**

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| **Actor** | **Admin** |
| **Pre-conditions** | **Admin is signed in.** |
| **Post-conditions** | **Admin views analysis reports** |
| **Basic flow** | **-The admin, already signed in, navigates to the analytics report section.**  **-The system retrieves and displays analytics reports.** |
| **Relationships** | **Admin - Analytics Report Interaction:**  **The admin interacts with the analytics module to retrieve and view analysis reports, establishing a relationship with the analytics component.**  **Admin - Authorization for Analytics Report:**  **This relationship indicates the need for proper authorization to access and view analytics reports. The authorization component is involved in ensuring the admin has the necessary permissions to access the analytics report feature.** |

**-System Management:**

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| **Actor** | **Admin** |
| **Pre-conditions** | **Admin is signed in.** |
| **Post-conditions** | **The admin has access to system management tools.** |
| **Basic flow** | **-The admin, already signed in, navigates to the system management section.**  **-The system provides access to various system management tools.** |
| **Relationships** | **-System management tools are available only to authenticated admins.Actor**  **-Actor -Admin: Accesses and utilizes system management tools.** |

**System :**

**Detect AI-Generated Media**

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| **Actor** | Admin |
| **Pre-conditions** | Media is present in the system. |
| **Post-conditions** | **The process concludes with the successful identification of AI-generated media.** |
| **Basic flow** | **-The system initiates the process to analyze media content.**  **-The system utilizes the Media Analysis Module to conduct a thorough analysis of the provided media content.**  **-The analysis involves various checks and assessments to determine the characteristics and patterns within the media.**  **-The system employs the AI Detection component to specifically identify any instances of AI-generated media based on predefined criteria and patterns.**  **-If AI-generated media is detected, the system proceeds to the next step.**  **-If no AI-generated media is detected, the process may end, and the system can provide feedback or log the result.**  **-The system marks or flags the identified media as AI-generated.** |
| **Relationships** | **System - Media Analysis Module**: The system interacts with a media analysis module for the analysis of media content, indicating a relationship with the analysis component.  **System - AI Detection:** There is a relationship with the AI detection component, which is responsible for identifying AI-generated media |