

1. Use Case Descriptions

1.1 Start Screen

Use Case ID:	1.0		
Use Case Name:	Start Screen		
Created By:	Aishwarya	Last Updated By:	Abhinaya
Date Created:	04/02/2021	Date Last Updated:	11/04/21

Actor:	User
Description:	Allows the user to login or Register to the Application
Preconditions:	Application must be downloaded
Postconditions:	1. The user is taken to the <u>Login Screen</u> . (OR) 2. The user is taken to the <u>Register Screen</u> .
Priority:	High
Frequency of Use:	When the application is opened
Flow of Events:	The user selects login or register to be redirected to the respective screens.
Alternative Flows:	N/A
Exceptions:	N/A
Includes:	1. Redirect to <u>Login Screen</u> . 2. Redirect to <u>Register Screen</u> .
Special Requirements:	N/A
Assumptions:	N/A
Notes and Issues:	Nil

Table 1: Start Screen: Use Case Description

1.2 Registration Screen

Table 2: Registration Screen: Use Case Description

Use Case ID:	2.0		
Use Case Name:	Registration Screen		
Created By:	Aishwarya	Last Updated By:	Aishwarya
Date Created:	04/02/2021	Date Last Updated:	05/02/2021

Actor:	User, Account System
Description:	Allows the user to register an account to the application
Preconditions:	Application must be started
Postconditions:	<ol style="list-style-type: none">1. The user is logged on and moved the <u>Home Screen</u>.2. The new user account details are stored in the account system
Priority:	High
Frequency of Use:	When the application is opened
Flow of Events:	<ol style="list-style-type: none">1. The user enters their full name.2. The user enters their age.3. The user selects their gender.4. The user enters their email.5. The user enters their height in centimeters.6. The user enters their weight in kilograms.7. The user enters a username and password.8. The system ensures the validity of the data entered, creates a new account for the user and then redirects them to the <u>Home Screen</u>.
Alternative Flows:	<ol style="list-style-type: none">1. The user enters some invalid data.2. The system prompts the user to re - enter the correct information.3. The correct information is then used to create the user account and then the user is redirected to the <u>Login Screen</u>.
Exceptions:	<ol style="list-style-type: none">1. The entered email id is already a registered user in the system.2. The system prompts the user that there is a pre - existing account registered and redirects them to the <u>Login Screen</u>.
Includes:	Redirect to <u>Home Screen</u>
Special Requirements:	N/A
Assumptions:	The user has an active internet connection
Notes and Issues:	Nil

1.3 Login Screen

Table 3: Login Screen: Use Case Description

Use Case ID:	3.0		
Use Case Name:	Login Screen		
Created By:	Abhinaya	Last Updated By:	Abhinaya
Date Created:	04/02/2021	Date Last Updated:	11/04/2021

Actor:	User, Account System, Email Client
Description:	Executes the login procedure when the User Details are input
Preconditions:	<ol style="list-style-type: none">1. Application must be started.2. The user has registered with the application
Postconditions:	<ol style="list-style-type: none">1. The user is logged on and moved the home page.2. Stored information of the user is retrieved
Priority:	High
Frequency of Use:	Every time the application is opened
Flow of Events:	<ol style="list-style-type: none">1. The user enters email.2. The user enters password.3. Account System verifies the user information.4. User is redirected to the <u>Home Screen</u>
Alternative Flows:	<ol style="list-style-type: none">1. The user enters incorrect login information.2. The state of the system does not change.3. The user is prompted to re - enter details to <u>Login Screen</u>
Exceptions:	<ol style="list-style-type: none">1. The user forgets login credentials.2. The user can click forgot password.3. An email is sent to the user to reset their password
Includes:	Redirect to <u>Home Screen</u>
Special Requirements:	N/A
Assumptions:	The user has an active internet connection
Notes and Issues:	Nil

1.4 Home Screen

Table 4: Home Screen: Use Case Description

Use Case ID:	4.0		
Use Case Name:	Home Screen		
Created By:	Abhinaya	Last Updated By:	Aishwarya
Date Created:	04/02/2021	Date Last Updated:	05/02/2021

Actor:	User
Description:	Provide an interface for the user to navigate across the different features of the app
Preconditions:	The user has successfully logged in or registered to the system
Postconditions:	The user is redirected to the chosen screen
Priority:	High
Frequency of Use:	Every time the application is opened
Flow of Events:	<ol style="list-style-type: none">1. The user can view concise information on the current active trail in the form of a widget.2. If the widget is clicked by the user, the user is redirected to the Active trail tab.3. The user selects the page to be navigated to selected page from among Access My Profile, Discover New Trails, Open Settings and Preferences and access my trails.4. User is redirected to the chosen screen
Alternative Flows:	N/A
Exceptions:	N/A
Includes:	<ol style="list-style-type: none">1. Redirect to the <u>My Account Screen</u>2. Redirect to the <u>Discover New Trails Screen</u>3. Redirect to the <u>Settings Screen</u>4. Redirect to the <u>My trails Screen</u>.5. Redirect to the <u>Active trail Screen</u>
Special Requirements:	N/A
Assumptions:	N/A
Notes and Issues:	Nil

1.5 Emergency SOS Screen

Table 5: Emergency SOS Screen: Use Case Description

Use Case ID:	5.0		
Use Case Name:	Emergency SOS Screen		
Created By:	Abhinaya	Last Updated By:	Abhinaya
Date Created:	04/02/2021	Date Last Updated:	11/04/2021

Actor:	User, System Manager
Description:	Allows the user to make an Emergency Call
Preconditions:	<ol style="list-style-type: none">1. The user has already logged on or registered to the system.2. The user has given permissions to place calls
Postconditions:	An emergency distress call is sent to the emergency contact
Priority:	High
Frequency of Use:	Two to three times in a year
Flow of Events:	The user places an emergency call by pressing the button on the screen
Alternative Flows:	N/A
Exceptions:	<ol style="list-style-type: none">1. The application is unavailable to place a call.2. The application requests the user for permission to place a call.3. The system places a call to the emergency contact
Includes:	Nil
Special Requirements:	Place call permission
Assumptions:	N/A
Notes and Issues:	Nil

1.6 My Account Screen

Table 6: My Account Screen: Use Case Description

Use Case ID:	6.0		
Use Case Name:	My Account Screen		
Created By:	Abhinaya	Last Updated By:	Abhinaya
Date Created:	04/02/2021	Date Last Updated:	11/04/2021

Actor:	User, Account System
Description:	The user can view their personal profile
Preconditions:	The user already has a registered account with the application
Postconditions:	N/A
Priority:	High
Frequency of Use:	7 - 8 times in a month
Flow of Events:	<ol style="list-style-type: none">1. The user views the personal profile.2. The information of the user account is displayed by the account manager.3. The user is redirected to the My settings and Preferences page when the button is clicked
Alternative Flows:	N/A
Exceptions:	N/A
Includes:	<ol style="list-style-type: none">1. Display user information2. Redirect to the <u>Settings Screen</u>
Special Requirements:	N/A
Assumptions:	N/A
Notes and Issues:	Nil

1.7 Settings Screen

Table 7: Settings Screen: Use Case Description

Use Case ID:	7.0		
Use Case Name:	Settings Screen		
Created By:	Abhinaya	Last Updated By:	Abhinaya
Date Created:	04/02/2021	Date Last Updated:	11/04/2021

Actor:	User, Account Manager
Description:	The user can edit personal information.
Preconditions:	The user has set up an account with the application
Postconditions:	The user personal information is updated in the account system
Priority:	High
Frequency of Use:	Once a month
Flow of Events:	<ol style="list-style-type: none">1. The user inputs height in centimeters2. The user inputs weight in kgs3. The inputs are verified and updated in the user account by the account manager
Alternative Flows:	<ol style="list-style-type: none">1. The user enters an invalid value for height or weight.2. Application prompts the user to re - enter data until a valid data is entered
Exceptions:	Nil
Includes:	Update user account
Special Requirements:	Internet Connection
Assumptions:	N/A
Notes and Issues:	Nil

1.8 Discover New Trails Screen

Table 8: Discover New Trails Screen: Use Case Description

Use Case ID:	8.0		
Use Case Name:	Discover New Trails Screen		
Created By:	Aishwarya	Last Updated By:	Abhinaya
Date Created:	04/02/2021	Date Last Updated:	05/02/2021

Actor:	User, Trails Manager
Description:	The user can choose and explore new uncharted trails
Preconditions:	The user already has a registered account with the application and has successfully logged in.
Postconditions:	N/A
Priority:	High
Frequency of Use:	½ times the application is launched and used
Flow of Events:	<ol style="list-style-type: none">1. The user has 2 options to pick from - "Trail by distance", "Trail by type."2. Trail by Distance -<ol style="list-style-type: none">1. Prompts the user to enter a distance.2. List of available trails with distance approximately equal to the user's input is displayed.3. Trail by Type -<ol style="list-style-type: none">1. The user can pick between City Trails and Nature Trails2. The chosen type of Trail is displayed
Alternative Flows:	N/A
Exceptions:	<ol style="list-style-type: none">1. The user enters a distance for which Trails are unavailable.2. The User prompted to enter a correct distance.3. The corresponding trail is displayed
Includes:	<ol style="list-style-type: none">1. Redirect to Active Trails Page2. Enter walking distance
Special Requirements:	N/A
Assumptions:	N/A
Notes and Issues:	Nil

1.9 My Trails Screen

Table 9: My Trails Screen: Use Case Description

Use Case ID:	9.0		
Use Case Name:	My Trails Screen		
Created By:	Aishwarya	Last Updated By:	Abhinaya
Date Created:	04/02/2021	Date Last Updated:	11/04/2021

Actor:	User, Trails Manager
Description:	The user can view previously completed trails
Preconditions:	The user already has a registered account with the application and has successfully logged in.
Postconditions:	N/A
Priority:	High
Frequency of Use:	½ times the application is launched and used
Flow of Events:	The user's previous trail information is displayed
Alternative Flows:	N/A
Exceptions:	1. The user has not completed any trail. 2. A suggested Trail is displayed
Includes:	Display User Trail history information
Special Requirements:	N/A
Assumptions:	N/A
Notes and Issues:	Nil

1.10 Active Trail Screen

Table 10: Active Trail Screen: Use Case Description

Use Case ID:	10.0		
Use Case Name:	Active Trail Screen		
Created By:	Aishwarya	Last Updated By:	Abhinaya
Date Created:	04/02/2021	Date Last Updated:	11/04/2021

Actor:	User, Trails Manager
Description:	The user views all the key aspects of the currently Active Trail
Preconditions:	The user already has a registered account with the application and has successfully logged in.
Postconditions:	N/A
Priority:	High
Frequency of Use:	Almost every time the application is launched
Flow of Events:	<ol style="list-style-type: none"> 1. The user can view the trail path based on the Trail that they had chosen. 2. The weather widget is updated live based on the user's surroundings. 3. The user presses play to begin the trail. This also starts the timer for the trail. 4. The step counter counts the number of steps taken during the trail and the calories are also tabulated. 5. The user presses pause to pause the workout. 6. The end button is used to end the trail.
Alternative Flows:	N/A
Exceptions:	<ol style="list-style-type: none"> 1. The user has not given Location permissions. 2. Permission for the location is requested from the user. 3. After the permission is granted, the user is redirected to the <u>Active Trails Screen</u>. <p>(OR)</p> <ol style="list-style-type: none"> 1. The user has not granted access to physical activity data. 2. Permission for access to the physical activity is requested. 3. After the permission is granted, the user is redirected to the <u>Active Trails Screen</u>.
Includes:	Display the trail path
Special Requirements:	N/A
Assumptions:	The user is connected to the Internet
Notes and Issues:	Nil

1.11 Music Screen

Table 11: Music Screen: Use Case Description

Use Case ID:	11.0		
Use Case Name:	Music Screen		
Created By:	Aishwarya	Last Updated By:	Abhinaya
Date Created:	04/02/2021	Date Last Updated:	11/04/2021

Actor:	User, Music Client
Description:	The user can play music either from YouTube or from the In - App Music player
Preconditions:	The user already has a registered account with the application and has successfully logged in.
Postconditions:	N/A
Priority:	High
Frequency of Use:	Almost every time the application is used
Flow of Events:	<ol style="list-style-type: none">1. The user chooses either In - App Music or YouTube to play music to play music.2. If YouTube is installed, the user is redirected to the YouTube App when the YouTube button is clicked.3. If the In - App Music button is chosen, the application redirects the user to an In - App Music player with preloaded songs.
Alternative Flows:	N/A
Exceptions:	N/A
Includes:	Nil
Special Requirements:	N/A
Assumptions:	N/A
Notes and Issues:	Nil