**• Feature 5:** Manage Information System

**[URS-1]: The administrator can add help information, which includes name, address, district, province, zip code, phone number, category, latitude and longitude.**

The administrator can add the details of the help information, which should be real and up to date. The information includes name, address, district, province, zip code, phone number, category, latitude and longitude.

**Prerequisite**

The administrator has to enter to the system to the home page.

**Input**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Example** | **Remarks** |
| Name | Name of help place should have the length 1-50 characters. | "Chiangmai Ram Hospital" | The word can be numeric, character or special alphabet. |
| Address | Address should be real information. The length should be 0-20 characters. | "8 Boonreungrit Rd” | Address should be the real information. |
| District | District should be real information. The length should be 0-20 characters. | “Muang” | District should be the real information. |
| Province | Province should be real information. The length should be 1-20 characters. | “Chiang Mai” | Province should be the real information. |
| Zip code | Zip code should be real information. The length should be 0-5 characters. | “50200” | Zip code should be the real information. |
| Phone Number | Phone number should be 9-10 digits. | "053920300" | Phone number should be the numeric. |
| Latitude | Latitude should be the DD (decimal degrees) format, which base on Google maps. | 18.809011 | Latitude should locate to the real location. |
| Longitude | Longitude should be the DD (decimal degrees) format, which base on Google maps. | 99.218742 | Longitude should locate to the real location. |
| Category | There are four categories, which are police station, highway police station, hospital and garage. | “Hospital” | Category should base on each help place. |

**Output**

The new help place with its information will add into the database.

**Flow of Execution**

1. The administrator browses to the add information page.
2. The system provides UI to add name, address, district, province, zip code, phone number, latitude and longitude.
3. The system provides map UI with pinning to get latitude and longitude.
4. The administrator adds the information of the help location.
5. The system checks the format of information.
6. The system adds the new help location into database.
7. The system provides the successful adding help information UI.

**Alternative flow A, the validation error**

A.5 If the system are received incorrect information, the system should provide UI with the error message. After the administrator accepts, the system will go back to step 2.

**[URS-2]: The administrator can edit help information, which includes name, address, district, province, zip code, phone number, category, latitude and longitude.**

The administrator can edit the details of the help information, which should be real and up to date. The information includes name, address, district, province, zip code, phone number, category, latitude and longitude.

**Prerequisite**

The administrator has to enter to the system to the home page.

The administrator has to choose the help place, where they want to edit.

**Input**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Example** | **Remarks** |
| Id | The identity of each help place should be unique number. | 1 | The identity number must not null. |
| Name | Name of help place should have the length 1-50 characters. | "Chiangmai Ram Hospital" | The word can be numeric, character or special alphabet. |
| Address | Address should be real information. The length should be 0-20 characters. | "8 Boonreungrit Rd” | Address should be the real information. |
| District | District should be real information. The length should be 0-20 characters. | “Muang” | District should be the real information. |
| Province | Province should be real information. The length should be 1-20 characters. | “Chiang Mai” | Province should be the real information. |
| Zip code | Zip code should be real information. The length should be 0-5 characters. | “50200” | Zip code should be the real information. |
| Phone Number | Phone number should be 9-10 digits. | “053920300” | Phone number should be the numeric. |
| Latitude | Latitude should be the DD (decimal degrees) format, which base on Google maps. | 18.809011 | Latitude should locate to the real location. |
| Longitude | Longitude should be the DD (decimal degrees) format, which base on Google maps. | 99.218742 | Longitude should locate to the real location. |
| Category | There are four categories, which are police station, highway police station, hospital and garage. | “Hospital” | Category should base on each help place. |

**Output**

The selected help place with new information will update into the database.

**Flow of Execution**

1. The administrator browses to the edit information page.
2. The system retrieves information of the selected help place from database.
3. The system shows information of the selected help place.
4. The system provides UI to receive name, address, district, province, zip code, phone number, category, latitude and longitude.
5. The system provides map UI with pinning to get latitude and longitude.
6. The administrator edits the information of the help location.
7. The system checks the format of information.
8. The system updates the help information into database.
9. The system provides the successful editing help information UI.

**Alternative flow A, the validation error**

A.5 If the system are received incorrect information, the system should provide UI with the error message. After the administrator accepts, the system will go back to step 2.

**[URS-3]: The administrator can remove help location.**

The administrator can delete the help place out of the database.

**Prerequisite**

The administrator has to enter to the system to the home page.

**Input**

The identity number of selected help place.

**Output**

System deletes the selected help place from database.

**Flow of Execution**

1. The administrator browses the home page.
2. The system retrieves the help place from database.
3. The system shows list of help place with remove UI.
4. The administrator selects help place, where they want to remove.
5. The system provides UI with message “Are you sure to delete?” to ask permission before remove help place.
6. The administrator accepts to delete help place.
7. The system deletes the help location from database.
8. The system provides the successful removing help place UI

**Alternative flow A, the validation error**

A.5 If the administrator chooses cancel the system will go back to step 3.

**[URS-4]: The admin can view help information of each help place.**

The admin can view the help information, which includes name, address, district, province, zip code, phone number, category, latitude and longitude of each help place.

**Prerequisite**

The admin has to enter to the home page.

**Input**

The identity number of selected help location.

**Output**

Systemwill show the information of selected help location.

**Flow of Execution**

1. The admin browses the home page.
2. The system retrieves the help place from database.
3. The system shows all list of the help location.
4. The administrator selects help place, where they want to view.
5. The system retrieves information of the selected help place from database.
6. The system shows the help information, which includes name, address, district, province, zip code, phone number, category, latitude and longitude.

**[URS-5]: The administrator can browse the help location by help place category.**

The administrator can browse the help location by help place categories, which are police station, highway police station, hospital, and garage.

**Prerequisite**

The administrator has to enter to the home page.

**Input**

The identity number of category that administrator selected.

**Output**

Systemwill show the list of help location.

**Flow of Execution**

1. The system shows categories UI, which are police station, highway police station, hospital, and garage.
2. The administrator selects category, which they want to view.
3. The system shall retrieve the help information from database by the selected category.
4. The system shall show the list of help location by selected category.

**[URS-6]: The administrator can browse the help location by province of Thailand.**

The administrator can browse the help location by selects province of Thailand that they want to view.

**Prerequisite**

The administrator has to enter to the home page.

**Input**

The identity number of province that administrator selected.

**Output**

Systemwill show the list of help location by selected province.

**Flow of Execution**

1. The system provides UI to show list province of Thailand.
2. The administrator selects province, which they want to view.
3. The system shall retrieve the help information from database by the selected province.
4. The system shall show the list of help location by selected province.

**[URS-7]: The administrator can browse the help location by category and province of Thailand.**

The administrator can browse the help location by selects category and province of Thailand that they want to view.

**Prerequisite**

The administrator has to enter to the home page.

**Input**

The identity number of category that administrator selected.

The identity number of province that administrator selected.

**Output**

Systemwill show the list of help location by selected category and province.

**Flow of Execution**

1. The system provides UI to show list province of Thailand and category of help place
2. The administrator selects category and province, which they want to view.
3. The system shall retrieve the help information from database by the selected category and province.
4. The system shall show the list of help location by selected category and province.

**• Feature 1:** Map and Help Information System

**[URS-8]: The user can view the online map with their current location.**

The user can view the online map with their current location on the online map page.

**Actor**

Users

**Prerequisite**

The user has to turn on GPS and enter to the online map page.

**Input**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Example** | **Remarks** |
| Latitude | Latitude of user’s current location should be the DD (decimal degrees) format, which base on Google maps. | 18.809011 | Latitude must be decimal number of degrees. |
| Longitude | Longitude of user’s current location should be the DD (decimal degrees) format, which base on Google maps. | 99.218742 | Longitude must be decimal number of degrees. |

**Output**

The online map is shown with the current location of the user.

**Flow of Execution**

1. The user enters to the online map.
2. The system obtains the latitude and longitude of the user’s current location.
3. The system get map from Google Maps.
4. The system provides online map UI, which shows online map with the user’s current location.

**[URS-9]: The user can view the offline map with their current location.**

The user can view the offline map with their current location on the offline map page.

**Actor**

Users

**Prerequisite**

The user has to turn on GPS and enter to the offline map page.

The user has to download Thailand map from MapsWithMe application.

The user installs MapsWithMe application on their device.

**Input and Output**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Example** | **Remarks** |
| Latitude | Latitude of user’s current location should be the DD (decimal degrees) format, which base on MapsWithMe. | 18.809011 | Latitude must be decimal number of degrees. |
| Longitude | Longitude of user’s current location should be the DD (decimal degrees) format, which base on MapsWithMe. | 99.218742 | Longitude must be decimal number of degrees. |

**Output**

The offline map is shown with the current location of the user.

**Flow of Execution**

1. The user enters to the offline map.
2. The system connects MapsWithMe application.
3. The system obtains the latitude and longitude of the user’s current location.
4. The system provides offline map UI, which shows offline map with the user’s current location.

**[URS-10]: The user can view the help places in online map.**

All help places will show in an online map. The user can view all help places on the map.

**Actor**

Users

**Prerequisite**

The user has to connect with the internet.

The user has to turn on GPS and enter to the online map page.

**Input**

The user input the uniform resource location automatic when start the application.

**Output**

All help places shows on the online map.

**Flow of Execution**

1. The user enters to the online map.
2. The system get map from Google Maps.
3. The system retrieve help places from server.
4. The system shall input maker of help places into online map.
5. The system shall provide all makers of help places on an online map.

**[URS-11]: The user can view the help places in offline map.**

The user can view the location of help places, where are loaded and saved in the user’s device.

**Actor**

Users

**Prerequisite**

The user enters to the offline map page.

The user has to turn on GPS.

The user has to download Thailand map from MapsWithMe application.

The user installs MapsWithMe application on their device.

There is information of help place, which is loaded, on the user device.

**Input**

The user enters to the offline map.

**Output**

The help location shows on the offline map.

**Flow of Execution**

1. The user enters to the offline map.
2. The system connects MapsWithMe application.
3. The system retrieves the loaded help places from the user’s device.
4. The system shall input maker of help places into offline map.
5. The system shows help places on the offline map UI.

**[URS-12]: The user can view help information of each help place in online map.**

The user can view the help information of each help place. The help information is name, address, district, province, zip code, and phone number of help place.

**Actor**

Users

**Prerequisite**

The user enters to the online map page, which shows the location of help place.

**Input**

The selected help place object.

**Output**

The help information of the selected help place, which is name, address, district, province, zip code, and phone number of help place.

**Flow of Execution**

1. The user selects the help place they want to see information on the online map page.
2. The system shall receive the help place object that user selected from online map.
3. The system shall retrieve information of help place object.
4. The system provides information UI to show the help information, which are name, address, district, province, zip code, and phone number.

**[URS-13]: The user can view help information of each help place in offline map.**

The user can view the help information of each help place. The help information is name, address, district, province, zip code, and phone number of help place.

**Actor**

Users

**Prerequisite**

The user enters to the offline map page, which shows the location of help place.

There is information of help place, which is loaded, on the user device.

**Input**

The selected help place object.

**Output**

The help information of the selected help place, which is name, address, district, province, zip code, and phone number of help place.

**Flow of Execution**

1. The user selects the help place they want to see information on offline map.
2. The system shall receive the help place object that user selected from offline map.
3. The system shall retrieve information of help place object.
4. The system provides information UI to show the help information, which are name, address, district, province, zip code, and phone number.

**[URS-14]: The user can make emergency call to each help place in online map.**

The user can call to each help place directly from the application.

**Prerequisite**

The user enters to the online map page, which shows the location of help place.

**Actor**

Users

**Input**

The selected help place object, where the user want to make a call.

**Output**

The system connects to call system of the device and make a call to the selected help place.

**Flow of Execution**

1. The user selects the help place they want to call on an online map.
2. The system shall receive the help place object that user selected from online map.
3. The system shall retrieve information of help place object.
4. The system provides the information of the selected help place with call UI.
5. The user selects phone number to call.
6. The system call to the selected help place.

**[URS-15]: The user can make emergency call to each help place in offline map.**

The user can call to each help place directly from the application.

**Actor**

Users

**Prerequisite**

The user enters to the offline map page, which shows the location of help place.

There is information of help place, which is loaded, on the user device.

**Input**

The selected help place object, where the user want to make a call.

**Output**

The system connects to call system of the device and make a call to the selected help place.

**Flow of Execution**

1. The user selects the help place they want to call on an offline map.
2. The system shall receive the help place object that user selected from offline map.
3. The system shall retrieve information of help place object.
4. The system provides the information of the selected help place with call UI.
5. The user selects phone number to call.
6. The system call to the selected help place.