Features:

1. Talk to SEEA

As the technology nowadays is pushing towards the development in the artificial intelligence **AI** field, the client requested to have a smart virtual assistant included in the app, which the user may use to achieve small tasks, with no precise idea given on how to implement it and how should the end-user interact with it, which was left for the project team to discover and implement what suits the end-user and their level of technological experience the best, considering the different levels of technological affinities of the end-user and suitable situations where the assistant might become handy and intuitive to use.

So we came up with the idea of **SEEA**, which is the name of the voice assistant inside the app, the name is the initials of the project “**S**wiss **E**ngineering **E**vent **A**pp ”.

Seea would start asking the end-user several questions to get to know him/her better, and start filling out the gaps to construct a model and start looking what events should it suggest to the end-user.

Those suggestion can be shown whether in the same page after answering all the question, or later in the Get Inspired screen.

This idea requires that Seea is aware of the events Database and can convert the textual recognized speech into a query to retrieve the results.



1. Search for Event

Search event is one of the core features of the Swiss Engineering Event App or any other event app in general.

The client asked to implement this feature considering the old Swiss Engineering App platform which was still in use till the date of writing this chapter. Therefor the search criteria in the Swiss Engineering Event App was inspired from the available filtering/searching options on the web platform, namely Search text, date, place, event type and the organization, it is worth mentioning that the event code was deleted as the client requested on the first Milestone meeting.

1. Get Inspired

Get Inspired is one of the important features of the app because it translates the end-user’s input to the virtual assistant into a textual results which helps to make the app usage more personalized.

Right from the early life phases of the project, the project team decided to have this feature and to use it to offer the end-user more realistic suggestions which match to the end-user personal interest.

The Get Inspired feature is implemented in many apps no matter in which genre it belongs, Facebook market place and YouTube for instance.

With this feature the project team expects the booking rate to be higher than before, because with Get Inspired, events will be suggested, even though the end-user might never search for before.

Get Inspired will also include the reason why is this event being suggested, and the user might choose to never receive suggestions from specific tags again.

1. Profile

In the profile the user will see the entered personal information, such as the photo uploaded, name, email and the address.

The user will also find in the profile the booked events grouped by their dates so that user can have a quick look at what booked events are coming next. The booked events should work even if the user is not connected to the internet, but the user can not update any booked events by deleting them or book new ones in this case.

In the future the dark theme switch should be added in the profile as well, so that the user who likes the dark theme might use it in the app.

1. Saves Locker

The Saves Locker idea is to act as the end-user’s vault, in which all the saved searches and liked events are kept to enable ease of access to those in the future, that is why this feature is presented on the home screen.

Both liked events and saved searches are combined under the Saves Locker feature and screen, but separated at the same time in two different tabbed pages; one for the saved searches and the other is for the liked events.

Using this feature the end-user doesn’t have to re-enter the search text again or any other criteria’s attribute if the save search switch was turned on by the time the user enters those attributes in the Search Event screen.

The user might also like an event to save it for later, so a decision can be made afterwards whether or not to book an event.

1. The Personal Social Feature ([Engineers are lonely](https://www.asme.org/engineering-topics/articles/technology-and-society/engineers-fighting-depression-shouldnt-go-alone))

According to a Harvard Business Review survey, the engineering were found to be the second loneliest profession, where Law came first.

So the project team decided to implement this social aspect feature in the app to help matching the engineers with other engineers who might have a similar interest.

The **AI** waits till people who booked the same event with the end-user Kevin book another event, then its suggests that event to Kevin in the Get Inspired page, so Kevin will have the opportunity to explore new themes and events which he might never think about before, and also make new friends inside the society.

In more details, When a user books an event, the app would start creating a matching process in the background to suggest new apps to attend, based on what did the co-attendees who visited the same event booked later.

The matching process would have to completely anonymous so that the privacy of the end-user doesn’t get violated.

The developer team really liked this idea because it helps to create a social relationships between the end-users who have the same taste and interests. This idea’s human value is really high to be just dropped, because it would help to create a real social community around the Swiss Engineering platform.

This feature can not be turned off now, but in the feature it should have a toggle switch in the profile page.

A screenshot of a cell phone

Description automatically generated

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| --- | --- | --- | --- | --- |
| ID | EPIC | Req | User Story | Acceptance Criteria |
| 1.1 | Talk to SEEA | The built in assistant must have a built in virtual assistant which saves the user liked tags(topics) to be used later in the Get Inspired page. | As a member, I want to enter my preferred topics and interests, so that I get suggestions based on those interests. |  |
| 1.2 | Talk to SEEA | The built in assistant must be capable of suggesting/displaying events in the Get Inspired page based on the user’s entered interests(tags/topics). | - |  |
| 1.3 | Talk to SEEA | The built in assistant must be capable of understanding simple questions related to the user’s booked events and deliver the right answers for those to the member. | As a member, I want to ask SEEA simple questions about my booked events, so that I don’t have to search for the required information on my own in the app structure and different screens. |  |
| 1.4 | Talk to SEEA | The built in assistant must be capable of displaying quick actions (open list of events related to user’s input tag) in the suggestions bar related to the member’s input. | As a member, I want to be able to get quick actions button to navigate me to the results related to the entered tags if any were available, so that I don’t have to look for those in the Get Inspired page. |  |
| 1.5 | Talk to SEEA | The built in assistant must be capable of receiving users input via text. | As a member, I want to enter my input to the assistant via text so that I don’t have to speak out loud to it. |  |
| 1.6 | Talk to SEEA | The built in assistant must be capable of receiving the users input via voice. | As a member, I want to give my input to the assistant via voice so that I don’t have to write my interests (tags/topics) using the keyboard. |  |
| 1.7 | Talk to SEEA | When the user enters the input via text, the built in assistant must give the answer via text as well. | As a member, I want to receive the output from the built in assistant via text when I enter my input via text, so that it adapts to my convenience. |  |
| 1.8 | Talk to SEEA | When the user enters the input via voice, the built in assistant must give the answer back via voice. | As a member, I want to receive the output from the built in assistant via voice when I give the enter via voice, so that I don’t have to read the written answer and listen to it instead. |  |
| 1.9 | Talk to SEEA | When the user choses to enter the input via voice, the input must be displayed as text as well. | As a member, I want to read what did the built in assistant understood from my voice input, so that I can check if the built in assistant understood my input correctly. |  |
| 1.10 | Talk to SEEA | When the built in assistant respond to the users input via voice, the output must be displayed as text as well. | As a member, I want to be able to read the built in assistant voice respond, so that I can rely on text in case I didn’t understand the output via voice. |  |
| 2.1 | Search for event | The system must be capable of retrieving a list of events corresponding to the users entered search criteria. | As a user, I want to be able to enter my search criteria, so that I receive a list containing events that matches this criteria exactly. |  |
| 2.2 | Search for event | When no matches were found, a message must be displayed to inform the user that no matches were found. | As a user, I want to see a message indicating that no results were found in case no matched events to my criteria exist, so that I can go back and change my criteria. |  |
| 2.3 | Search for event | When all fields in the search criteria are left empty, the system must display a list of all possible events. | As a user, I want to see the list of all available events in case no search criteria were entered, so that I explore all events that are available. |  |
| 2.4 | Search for event | The system must check the date of event entered in the search criteria before proceeding to the results page to notify the user if the date does not match the expected format. | As a user, I want to be notified if my entered date for the event to search for is not accepted, so that I can change it to match the expected format. |  |
| 2.5 | Search for event | If the save search switch is toggled on, the system must save the search criteria entered by the user. | As a user, I want to be able to save my entered search criteria, so that I can use it later in the future to search for events without refilling the search fields criteria. |  |
| 2.6 | Search for event | If the save search switch is toggled on, at least one of the following must be entered: Search text, place, event type or/and event hosting organization. | - |  |
| 2.7 | Search for event | The system must display the available options for the organization to the user to choose max. one of the listed organizations. | As a user, I want to see a list of the organizations available in the search criteria, so that I can choose one of them because I usually don’t remember their names by heart. |  |
| 2.8 | Search for event | The system must display the available options for the event type to the user to choose max. one of the listed event types. | As a user, I want to see a list of the event types available in the search criteria, so that I can choose one of them because I don’t know what types are available. |  |
| 2.9 | Search for event | The system must indicate where does the results list ends. | - |  |
| 2.10 | Search for event | The system must show the most important information only on each event card in the results list. | As a user, I want to be able to read information about the event on the card of each event, so that I can decide which one to click on to see its full details. |  |
| 2.11 | Search for event | The system must be capable of filtering the visible events list based on member’s preferences entered in the filtering popup window. | As a member, I want to be able to filter the shown list of results even more, so that I can get results corresponding to my preferred saved or in-screen entered tags(topics). |  |
| 2.12 | Search for event | The system must be capable of saving an event into the Saves Locker when the user clicks on the save event icon. | As a user, I want to be able to save events into my Saves Locker, so that I can find them much quicker in the future. |  |
| 2.13 | Search for event | The system must be able to navigate the user to the default map app set on the smartphone when the user clicks on the map icon. | As a user, I want to be able to view the events location on my map app, so that I can check the distance to the event’s location. |  |
| 2.14 | Search for event | The system should be able to save events into the user’s default calendar app under the correct date, time, location and event’s name, when the save to calendar icon is clicked and the permissions are granted. | As a user, I want to be able to save events to my calendar automatically, so that I don’t have to enter the events details and construct the event manually. |  |
| 2.15 | Search for event | The system must show all event’s details in the Event Details page. | As a user, I want to be able to see all event’s details, so that I can decide whether to book or not. |  |
| 2.16 | Search for event | The system must be able to book an event for the member, when the user clicks on book now button. | As a member, I want to be able to book events directly from the app, so that I totally rely on the app and avoid navigating to the Swiss Engineering platform. |  |
| 3.1 | Get Inspired | The system must be capable of providing suggestions to events which correspond to the member’s preferred topics(tags). | As a member, I want to be able to receive suggestions to events that matches my interest entered to SEEA, so that I can explore what events, which I didn’t hear of may interest me to book. |  |
| 3.2 | Get Inspired | The system must show why is an event being suggested. | As a member, I want to know based on which tag(topic) has been this event suggested to me, so that I can decide whether to keep receiving events based on this tag or not. |  |
| 3.3 | Get Inspired | The system must offer the ability to remove tags directly form the Get Inspired page. | As a member, I want to be able to delete tags directly from the Get Inspired page, so that I don’t receive events related to a tag(topic) anymore. |  |
| 3.4 | Get Inspired | The system must offer the ability to view all event listed under a tag. | As a member, I want to be able to view all events listed under a tag, so that I can explore them all in one page. |  |
| 3.5 | Get Inspired | The system must suggest to talk to the built in assistant if no suggested events were found in order to add more tags. | As a member, I want to be able to navigate to the built in assistant directly from the Get Inspired page if no events were displayed, so that I can add more tags(topics) to receive suggested events based on them. |  |
| 4.1 | Profile | The system must show the member’s name, email and address loaded from the member’s account on the Swiss Engineering platform. | As a member, I want to able see my email, name and address loaded from the Swiss Engineering database, so that I can check if there is an error or update my data in case any has changed. |  |
| 4.2 | Profile | The system must be able to display the member’s photo in the profile page. | As a member, I want to be able to add my image to the profile, so that I can personalize my profile. |  |
| 4.3 | Profile | The system must display a tab for the booked events in the profile page. | As a member, I want to be able to navigate to the booked events from the profile, so that I can check which events do I have next. |  |
| 4.4 | Profile | The system must allow the member to choose whether to use the light or the dark theme across the whole app from the profile screen. | As a member, I want to be able to choose whether to use the dark or light theme, so that I can personalize my experience to make it match my own preferences. |  |
| 4.5 | Profile | The system must show a list of all booked events when the member clicks on my reserved events tab in the profile. | As a member, I want to be able to see all my of booked events, so that I know what events are coming next. |  |
| 4.6 | Profile | The system must show a message in the booked events page indicating that there are no booked events if no events been booked yet. | - |  |
| 4.7 | Profile | The system must show a message indicating that the member has reached the end of the booked events list, if at least one event is booked and previewed. | - |  |
| 4.8 | Profile | The system must be capable of showing the member the booked events page with the booked events (if any) even without an active internet connection. | As a member, I want to be able to see my booked events even offline, so that I can see my upcoming events. |  |
| 4.9 | Profile | The system must group the booked events based on their dates in the booked events page. | As a member, I want to be able to preview my booked events grouped by their dates, so that I can find the information needed in a more convenient way. |  |
| 5.1 | Saves Locker | The system must have a page containing both saved events and searches. | As a user, I want to be able to save events and searches, so that I can access them without having to enter the search criteria or search the events once again. |  |
| 5.2 | Saves Locker | The system must separate both the saved events and searches from each other. | As a user, I want to be able to choose what to view on the screen whether saved searches or liked events, so that I can access the data needed faster. |  |
| 5.3 | Saves Locker | The user must be capable of removing saved searches and/or liked events from the Saves Locker. | As a user, I want to be able to delete saves searches or events from my Saves Locker, so that it doesn’t get crowder with events or searches that I don’t wish to have anymore. |  |
| 5.4 | Saves Locker | The user must be capable of viewing and deleting the Saves Locker elements offline. | As a user, I want to be able to see my data saved in the Saves Locker even offline, so that I can see and/or update them in all situations. |  |
| 5.6 | Saves Locker | The system must show a message indicating that the Saves Locker for event or searches or both is empty in case it was. | - |  |
| 5.7 | Saves Locker | The system must offer the user the ability to add items to the Saves Locker in case it was empty be offering a quick action button to save either new events or searches. | As a user, I want to be able to add elements in fewer clicks to my saves locker in case it was empty, so that I save the time navigating to the wanted screen using the normal hierarchy and steps. |  |
| 6.1 | Personal community | When a member books a new event, this event should be suggested in the Get Inspired page to all other members who the member attended events with before. | As a member, I want to see suggested events, based on other members latest booked events, who attended the same events with me before, so that I can explore new events that might interest me. |  |
| 6.2 | Personal Community | The system must indicate in the Get Inspired page that an event is being suggested because people with same interests booked it. | As a member, I want to be able to see if events have been suggested because other members, who attended previously an event with me, have booked it, so that I can identify that it is not related to my own entered tags and interests. |  |