

# meet&do: Meeting website for students and enthusiasts

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**Abstract**—meet&do is a website that aims to put people in touch who have similar interests and hobbies or need help with issues related to their studies. Enthusiasts can find each other through the website and share real-life activities together.

## I. INTRODUCTION

Nowadays, we are more connected than ever through social media and all kinds of internet-based services yet somehow people are still isolated from each other. Forming friendships and relationships has become challenging for some as it is easy and convenient to hide behind a social media profile. Everyone has an online presence. In this environment, many may find themselves looking for real-life interactions.

We want to create a website that aims at putting people in touch who have similar interests and hobbies or need help with issues related to their studies. Getting in touch online is easy but that is just the first step. After finding people with the same interests and making appointments, users of our website meet in real life. Meeting new people works best if you are already interested in similar fields and activities and we want to put people together who have those in common. Common interests to bond over and meet up again in the future or form new friendships.

Where already existing alternatives might take a more generic approach, we want to create a solution that gives users the opportunity to choose what they are looking for from the beginning. Therefore, the website will be divided into four main areas. That makes it less confusing and easy and intuitive to navigate.

## II. ALTERNATIVES

Popular alternatives include Jodel, a mobile application which is popular in Germany. This application is location based and only allows posting messages on a public feed.

Another one is Meetup.com, which is more generalist and allows to create meetups related to anything. Our website will focus on integration with third-party APIs thus limiting the scope of the possible meetups.

Our project does not aim to compete with some kind of meeting websites like dating sites. Services exchange website are not considered either, since money is not a consideration in the user's meetings. All meetups should be made for free and not in exchange of money.

## III. TECHNICAL CONSIDERATION

The project will take the form of a full stack website using Ruby-on-Rails. Future improvements could include the elaboration of a mobile application leveraging an API.

## IV. ROLE ASSIGNMENT

| Role                | Name         | Task description and etc.   |
|---------------------|--------------|---|
| User                | Marc-Antoine | Quality assurance, testing of the product as a normal user through multiple device                                    |
| Customer            | Simon        | Ensuring requirements are the most precise possible, and that they stay up to date during the lifetime of the project |
| Software developer  | Stanislas    | Implementation of the requirements and technical feedback   |
| Development manager | Stephane     | Work distribution and time, deadline management. Communication management with the client.                            |

## V. REQUIREMENTS

### A. Signup page

The signup section should show these fields:

- First Name
- Name
- Gender
- Date of Birth
- Email
- Password
- Password confirmation
- Anti-robot captcha verification
- Sign up button

When the user presses the sign-up button considering all the information given is valid, the user must click the verification link sent by email to create his account and have access to the home page.

### *B. Login page*

The login section should show 2 fields: username and password fields as well as a login button.

### *C. Home page*

Once the user created his account or correctly logged in, he should have access to the home page.

The website should be able to localize the user city precisely and state it on the Home page. It also should give the user the possibility to change his location from a list of registered cities in the world.

The user should be able to log in from a Login button at the top right of the home page (if not logged in). The login section should show 2 fields: username and password fields as well as a login button.

The user should be able to log out from a Logout button at the top right of the home page (if logged in).

If the user is not logged in and tries to access to logged in user sections (such as personal information) the access will be denied and Login section will be highlighted to inform the user to sign up or log in in order to access this section.

### *D. Feed section*

A search bar allows the user to search for a particular meeting. The home page should show a feed of meetings. The feed should only show non-archived meetings, be sorted from the nearest upcoming date at the top of the page to the latest date at the bottom of the page. The feed should show all types of meetings.

The meeting cards should show:

- 1) Name                      and/or                      Type:                      Restaurant  
(Lunch/Dinner/Brunch...),                      Sport                      (Ten-  
nis/Football/Swimming...),                      Study                      Lesson  
(Chemistry/Mathematics/Economics...),                      Entertainment  
(Theater/Outdoor show/ Concert...),                      Art                      Practice  
(Painting/Music...)
- 2) Location: Precise location with exact address and redi-  
rection to google maps when address is clicked
- 3) Time and duration: Meeting time and expected duration  
of the activity
- 4) Price: Can be undefined if free activity or if the price is  
not equally shared
- 5) Current participant number, expected participant num-  
ber, max participant number: expected and participant  
numbers are not mandatory information. Possibility to  
click on current participants to display the list of current  
participants and access to their profile
- 6) Details: Text field with additional details from the  
meeting organizer, the details should be expand-  
able/collapsible if too long.
- 7) Visual: Most precise visual describing the meeting, it can  
be a promotional photo of a restaurant, the poster of a  
show, an illustration of Mathematics, ... Whatever visual  
that can describe the meeting type the most precisely  
possible

8) Ask to Join Button: This button will open a new window with a message to send to the meeting organizer for joining the meeting. A default message is proposed to the user, but he can make his own. Join and Cancel Buttons available.

9) Remove from feed button: A little cross at the top right of the card that removes the card from the feed

### *E. Search Filters*

The filter section should give the user the possibility to filter the feed results considering:

- 1) The type of meetings
- 2) The Date/Time of meetings
- 3) The Duration of meetings
- 4) Number of participants
- 5) A location filter (km radius from his current location)
- 6) Reset all filters
- 7) Filter button
- 8) Restore removed meetings

### *F. User section*

The user section should give the possibility to the user to access his personal profile page and settings. Each user has a public profile with a limited set of information such as their name, profile picture, location and past meetings they participated in. An edit page is available for them to update these public details.

Private information such as email, password, account deletion, etc. are available on a different page called account settings.

### *G. Chat section*

This page should let a user talk to other users via private messages.

A left column should contain a list of people that the user has already contacted, and a right column should contain an opened chat between the current user and another user.

The user's list should display full names and user profile photos. Next to each users' names, something should let the current user know that a user has sent a new message that he/she has not seen already.

The opened chat should contain all messages sent by people included in the chat. The current user should be able to see his/her messages on the right side. Next to each message, a user should be able to see the time (hour format) of receipt of a message.

### *H. User's meeting section*

From the user section, which is a menu on the homepage the user can select a page with all his personal meetings that he is participating in or has shown interest in participating in. This page is called My Meetings. It can be found under this name in the user section.

The basic structure of this page is a list of all the user's events. All events all displayed chronologically in a timeline format. The user is able to scroll through the timeline and search all content by keywords or different filters.

Other requirements for the My Meetings page:

- 1) A search bar on top of the site to search through all of the user's meetings (past and upcoming)
- 2) Meetings can be searched by keywords, location, type of meeting, tags of a meeting
- 3) Drop down menu next to the search bar to choose what type of content is displayed
- 4) Show all meetups
- 5) Timeframe (choose between past and future events)
- 6) Type of meeting (4 main categories)
- 7) Only show favorite meetups
- 8) Show archived meetups
- 9) On the right side of the bar there is a timeline that indicates dates of meetings, user can scroll through the timeline to navigate the page faster
- 10) Meetings are listed along the timeline with their individual dates as they occurred
- 11) All meetings are displayed in chronological order (the most recent first)
- 12) Different colors for different types of meetings, same as on the homepage
- 13) The user has the ability to highlight certain meetups which are then given a more prominent location on the page
- 14) Highlighted meetups are marked as favorites and pinned on top of the page, regardless of their dates
- 15) User's favorites can be past events as well as upcoming ones
- 16) The 'highlights' section on top of the page is visibly separated from the rest of the chronologically displayed events
- 17) Users have the ability to remove meetups from their personalized My Meetings page by "leaving" a meetup
- 18) In the same way meetups are added to the My Meetings page by 'joining' a meetup
- 19) Users have the ability to archive past events without leaving them, archived events don't show up on the My Meetings timeline

#### *I. Page for an individual meeting*

From the My Meetings page as well as the Home Feed users can access the page of each individual meeting by clicking on its card in the Feed or My Meetings page.

The page for a certain meeting displays all relevant information added by the creator of the meetings as well as a chatroom and list of people who joined.

- 1) All relevant information as well as a title picture are displayed on a blackboard on top of the page (type of meetup, description, location, date, for how many people is planned, etc)
- 2) Underneath there is a chatroom to which everyone who joined the event has access to
- 3) All users can access the event page and read information but only users who participate are able to join the chat
- 4) Users have to ability to ask questions to the creator of a meeting prior to joining

- 5) On the page of the meeting users have the ability to join the meeting, mark the meeting as "I am interested", or share a link to the event via social media
- 6) Users have to ability to hide an event from their home feed if they choose to

#### *J. Create new meeting*

This page should present a form to create a new meeting which the user will be the organizer of. Required information should be the name of the event (text field), the type of meeting (choose one from a list), the date of the meeting (normalized calendar date) and the meeting location (address from google maps, should be the most accurate possible).

Other information such as the duration of the meeting (numerical value in minutes), the price of the meeting (in local asset, undefined if not stated, otherwise numerical value), the expected and maximum number of participants (numerical values) and some additional details on the meeting (text field).

The form should have a create button as well as a cancel Button. The create button will trigger a confirmation window summing up all the given information and asking the organizer to confirm the meeting creation or go back to editing the meeting. If the organizer confirms the meeting creation, it will create the meeting and it will be uploaded to all the other users meeting feed (in the region). The cancel button should reset the form.

A visual for the new meeting card will be automatically uploaded from a bank of images, the chosen image will have to be the most accurate possible regarding the meeting. Once the meeting is created, a chat group for this meeting will be created in the chat section. The organizer is basically the administrator of this chat group and each time a new participant will ask to join the meeting, the organizer will have to either accept/deny his participation from this group chat. Once the meeting is created, a card will be added to the user's 'My meetings' page and only the organizer will be able to edit or delete the meeting.

### **VI. SPECIFICATION**

#### *A. Create new meeting*

On this page, the user has to fill a form with fields corresponding to the following:

- 1) Name (required): Text field, maximum 50 characters, only alphanumeric
- 2) Type (required): 2 Dropdown menus, 1 for the main category, can only select one item between (Sport, Outdoor, Entertainment, Culture, Food, Education), this selection is required

The 2nd dropdown menu will be updated depending on the choice of the 1st dropdown menu, can only select one item, this selection is not required ('—' if nothing is chosen)

A 'Other' item is present in the 2nd dropdown menu list, if selected a new text field will appear (20 characters, only alphanumeric) with precision of the item written by the user, not required.

- 3) Date (required): A text field which is not editable by the user, next to it a button with a calendar icon, when the user clicks on the field or the calendar icon, a new calendar pops out with previous dates in gray (not selectable), user can navigate through the years, months and select the date, when selected, the calendar hides and the text field is filled with the selected date.
  - 4) Time (required): Drop down menu, items are all daily hours in a 15 minutes separation, user has to select one item.
  - 5) Location (required): Search bar coming from google locations API, user will type the location name and a list of locations known by google will appear (autocomplete), user has to select one, a button next to the text field with a map icon is also available, when clicked, a map will pop up and the user can drag a pointer to the location, if the given point doesn't correspond to any of the google API's location, the location will be updated as cardinal coordinates.
  - 6) Duration: Text field with only numeric characters accepted, from 0 to 1440 (24 hours), if text field is not filled in, it is considered as 'undefined'.
  - 7) Price: Price per participant, text field with only numeric characters accepted, from 0 to 9999999999999999, if text field is not filled in, it is considered as 'undefined'. The asset used is the one from the country of the set location.
  - 8) Expected participants: Text field with only numeric characters accepted, from 0 to 999999999, if text field is not filled in, it is considered as 'undefined'.
  - 9) Maximum participants: Text field with only numeric characters accepted, from 0 to 999999999, if text field is not filled in, it is considered as 'undefined'.
  - 10) Details: Text field, details are to be written from the organizer, 5 lines of text max, only alphanumeric characters.
  - 11) Create Button: Opens a new page with all the form but the information are not editable (grayed areas), the only editable field is the picture of the event (selected in the google bank of images depending on the type and location of the meeting). The user can select the graphic used from this bank of images that will appear in the meeting card. The user can then Confirm? Yes/No, if No, back to the form, the new page pops out, if yes meeting is created and back to home page.
  - 12) Cancel Button: Resets the form after alerting the user with an alert box (Confirm? Yes/No) if confirmed
- c) When executing a search results are displayed as a list on the MyMeetings page
  - d) Users can click on the result to reach the page of the individual meeting
  - e) Feature to guess the user's search request by keywords, associated meetings are recommended (auto-complete for search requests)
  - 4) Meetings can be searched by keywords, location, type of meeting, tags of a meeting
  - 5) Ability to filter search result
    - a) Drop down arrow next to the search bar to filter what results are displayed
    - b) Implementation of checkbox selection filter (by clicking downward arrow user is taken to the checkbox selection)
      - i) Show all meetings checkbox selected by default
      - ii) Checkbox to select type of meeting (Food, Study, Sports, Activities)
      - iii) Checkbox to filter by location (select nearby, my area, all)
      - iv) Checkbox to select the timeframe (only show past meetings, only show future meetings)
      - v) Checkbox to only show meetings marked as favorites
      - vi) Checkbox to only show archived meetings
  - 6) Timeline on the right side of the MyMeetings page
    - a) User can move through the timeline by scrolling on the page
      - i) Marker on the timeline indicates the current position/date
      - ii) User's have the ability to navigate the page faster by clicking and dragging the marker across the timeline or scrolling directly on the timeline
    - b) Buttons to show more/ show less (+ or -) on top of the timeline to select the scope of the timeline
      - i) Enables the user to switch between Years/Months/Days to control the level of detail on the timeline
      - ii) Purpose: more organized MyMeetings page in case multiple meetings for a specific date, more organized overall display for many meetings
    - c) Meetings are listed along the timeline as they occurred
      - i) Listed chronologically by default
  - 7) Meetings on the MyMeetings page are displayed in boxes
    - a) Box includes title of specific meeting in bold letters
    - b) Short, general descriptions as preview that users choose when creating a meeting
    - c) Location of meeting
    - d) Indicator for rough amount of people attending/ interested in specific meeting e.g. 10, 10+
    - e) Boxes feature slightly rounded corners

## B. User's meetings section

- 1) Header with MeetnDo logo and MyMeetings title
- 2) White page background
- 3) Search bar
  - a) Search bar on top of the page to search meetings by keywords
  - b) Results are drawn from a database of all of the user's past and present meetings

- 8) Different colored boxes for a well arranged layout and usability
  - a) Distinguished by the 4 general types of meetings
    - i) Red for Food
    - ii) Yellow for Education
    - iii) Light Green for Sports
    - iv) Dark Green for Outdoor
    - v) Orange for Culture
    - vi) Blue for Entertainment
  - b) Hex transparency 50%
- 9) 'Highlights' section pinned above the regular timeline view
  - a) User has the ability to mark meetings as favorites
    - i) Star symbol in the right corner of every meeting box
    - ii) By default only outlines, by clicking the star is displayed yellow thus marked as favorite
  - b) 'Highlights' section visibly divided from the rest of the timeline by light yellow background
- 10) Controls over content shown on MyMeetings page
  - a) Ability to remove meetings from MyMeetings
    - i) Leave specific meeting via right click or designated button on the page of the individual meeting
  - b) Ability to add meeting to MyMeetings
    - i) Via right click on homepage or designated button 'Join Meeting' on the page of the individual meeting
    - ii) Mark meeting as 'I'm interested' on the individual page of the meeting
  - c) Ability to archive past meetings without leaving
    - i) By right click or designated button 'Archive' on the page of the individual meeting
    - ii) Archived meetings are not shown on the timeline of MyMeetings but can still be searched for
    - iii) Archived meetings are displayed with grey background

### C. Page of an individual meeting

The page of each individual meeting contains all relevant information about the event. Users can access the page from anywhere e.g. from the Home Feed, MyMeetings or a user's profile by simply clicking on the box or the title of a specific meeting. All users are able to access the page of a meeting.

- 1) Background of the page is shown in the same color as the meeting box but at 10% opacity
- 2) Title of the meeting on top of the page in bold letters
- 3) Contains all information about the meeting
  - a) Type of meeting (as bullet point beneath headline)
  - b) Description of the meeting as put in by the creator of the meeting as 'Details'
    - i) Text field, Maximum 5 lines of text, alphanumeric characters only

- c) General information displayed as
  - i) 'When: "dddd, dd MMMM yyyy HH:mm"' as chosen by the creator
  - ii) Approximate duration is stated underneath date and time, if the creator has provided a duration
  - iii) Location of the event displayed on the right of time, date and duration
    - A) Section of the map where the meeting will take place is embedded in the page through Google Maps API/HTML (small window)
    - B) Google Maps pin on the map marks the exact location
    - C) Written address/location is displayed beneath the Google Maps window
    - D) By clicking on the map the user is taken to Google Maps with the event location marked
  - iv) Price per participant is displayed underneath as 'Price: Value'
    - A) If no price provided, 'Price' is not shown
    - B) If price is indicated as 0, it is displayed as 'Price: Free'
    - C) If no specific price provided, price can also be displayed as an estimate as chosen by the creator (\$/\$/\$/\$\$)
  - v) Expected participants as 'Expected participants: Value' if provided by creator
  - vi) Maximum participants as 'Maximum participants: Value' if provided by creator
  - vii) Beneath, the creator/host of the meeting is indicated by displaying a small, circular profile picture as well as the name
    - A) Users can click on the creator to be taken to the person's profile page
- 4) Underneath the information about the meetings there are buttons the user can click, those buttons are aligned
  - a) 'Join' button to join the meeting
  - b) 'I'm interested' button to mark as interested in
  - c) 'Join Chat room' button, only becomes visible once the user has joined the meeting
  - d) Links to a chat page of the individual meeting
  - e) 'Share' buttons from various social media plugins to share on social media platforms
  - f) 'Not interested' button, on the lower right corner and smaller than the other buttons
    - i) Meetings marked as 'Not interested' will not be suggested to the user again on the Home Feed
- 5) To exit the page of an individual meeting, click on the small Exit button in the upper right corner (X)

### D. Signup page

- 1) With a Google Account
- 2) With an email
  - a) Name — Text field, 50 characters max, can't be empty

- b) Email address — Text field, 255 characters max, unique and can't be empty
- c) Password — Text field (password type), 255 characters max, can't be empty
- d) Confirmation password — should match the password
- e) Location — Text field which is auto-completed via an API (or a table in database)