

MongoDB as an admin Platform (MaaP)

Chi siamo?

The screenshot displays the CoffeeStrap website interface. At the top left is the CoffeeStrap logo. Below it, a dark navigation bar contains the text "What language do you want to CoffeeStrap today?" and a user count "233 CoffeeStrappers, and counting. Help spread the word." with a help icon.

The main content area is split into a left sidebar and a central grid. The sidebar, on a light yellow background, contains navigation icons (back, forward, search, settings, help) and filter sections: "AGE RANGE" with a slider from 0 to 100, "GENDER" with male and female icons, and a "CLICK TO RESET SEARCH" button. At the bottom of the sidebar are links for "BLOG", "FACEBOOK", "TWITTER", "TEAM", "PRIVACY POLICY", and "TERMS OF USE".

The central grid, on a dark blue background, features two user profile cards with dashed borders. The first card shows a profile for "ALESSANDRO" with a photo of a man, a "31" age indicator, and language tags for "Italian" and "English". The second card shows a profile for "MAHESH" with a photo of a man at a computer, a "29" age indicator, and language tags for "Italian" and "French".

Chi siamo?

CoffeeStrap > ? ↻

What language do you want to CoffeeStrap today?

































233 CoffeeStrappers, and counting.
Help spread the word.

AGE RANGE: 0 - 100

GENDER: [Male] [Female]

CLICK TO RESET SEARCH

BLOG
FACEBOOK
TWITTER
TEAM
PRIVACY POLICY
TERMS OF USE

 MARION 31 French Spanish Italian	 ANGIE 31 Spanish English	 ALESSANDRO 31 Italian English	 CYNTHIA 21 Spanish English	 MIKEL 24 Spanish German	 YUSUF 23 Arabic Spanish	 CARLOS ALE 30 Spanish English	 DAN 24 English Japanese
 EDDIE 21 Spanish French	 GAVIN MCCO 14 English French	 NATHAN 38 English Spanish	 STEFANIA 27 Italian English	 MIGUEL 22 Spanish English	 IRENE 20 Italian French	 MAHESH 29 Italian French	 MARCO 31 Italian French
 ALBERTO 23 Spanish English	 ROBIN 19 German Korean	 MARIE-PIER 26 French Spanish	 MOMOKO 19 Japanese English	 JOANNA 24 Spanish English	 KRISTIN 17 English Japanese	 REBECA 27 Spanish Spanish	 BAHRIYE 24 English English
							

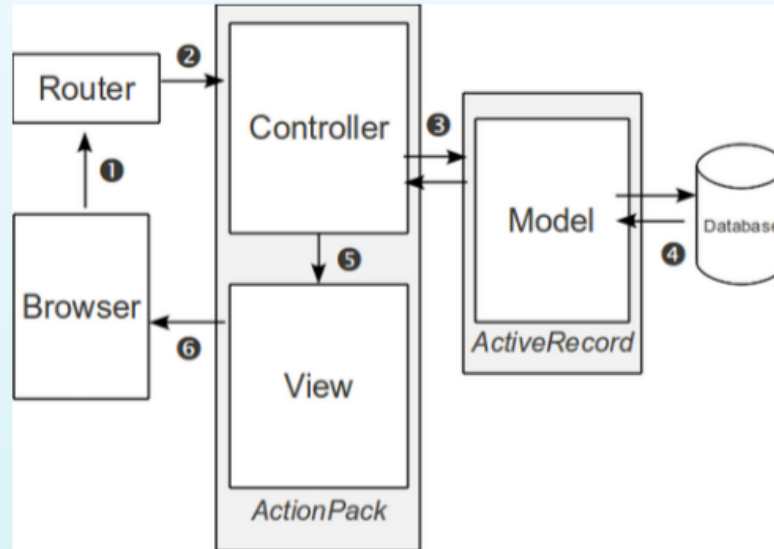
Chi siamo?

The screenshot displays the CoffeeStrap website interface. At the top left is the CoffeeStrap logo. A dark navigation bar contains the text "What language do you want to CoffeeStrap today?" and a user count: "233 CoffeeStrappers, and counting. Help spread the word." Below the navigation bar is a search filter panel on the left with icons for navigation and settings. It features two filter sections: "AGE RANGE" with a slider from 0 to 100, and "GENDER" with male and female icons. A "CLICK TO RESET SEARCH" button is located below these filters. A vertical menu on the left side lists: BLOG, FACEBOOK, TWITTER, TEAM, PRIVACY POLICY, and TERMS OF USE. The main content area on the right shows a user profile for "ALESSANDRO" with a profile picture, age "31", and language preferences for "Italian" and "English".

Rails



Rails



Rails

The image displays a Rails application interface. On the left, a database table is visible with columns: id (PK), serial, name (character varying(255)), left_user_id (integer), right_user_id (integer), and designated (integer). The table contains 43 rows of user data. A pink arrow points from the table to the right-hand side of the application.

On the right, the application interface is titled "SAN FRANCISCO". It features a "WHERE" section with a map of San Francisco and a "WHEN" section with a schedule. The schedule lists days from Wednesday to Sunday with time slots and checkboxes.

id	serial	name	left_user_id	right_user_id	designated
26		M_BERLIN_T_Francesca_Rob	951	985	3
27		M_BERLIN_U_Valeria_Adam	1826	876	3
28		A_SF_E_Zachko_Lulu	846	1837	1
29		M_BERLIN_V_Silke_Allan	685	1843	3
30		M_BERLIN_Z_Mina_Stefano	969	1834	3
31		M_BERLIN_A1_Michi_Robert	1842	951	3
32		M_BERLIN_A2_Joelle_Stefo	962	1834	3
33		Imagine_K12	1394	5	1
34		Nick_Dorlane	1480	1895	1
35		Nick_Claudine	1480	1383	1
36		Bernardette_Nick	1838		
37		Romeln_Nick	1878		
38		Mireia_Nick	535		
39		Sven_Nick	91		
40		Tin_and_Nick	1480		
41		Geoff_Jordi	134	1	1
42		Uline_Giulia_Eleonora	1488	1	1
43		SUP_Alessandro	1416	5	1

The "WHERE" section shows a map of San Francisco with a blue pin in the Financial District. The "WHEN" section shows a schedule for San Francisco:

Day	Time Slot	Selected
Wednesday - April 24 th	morning	<input type="checkbox"/>
Wednesday - April 24 th	evening	<input type="checkbox"/>
Thursday - April 25 th	9:00 - 11:00	<input checked="" type="checkbox"/>
Thursday - April 25 th	12:30 - 14:00	<input checked="" type="checkbox"/>
Thursday - April 25 th	evening	<input type="checkbox"/>
Friday - April 26 th	morning	<input type="checkbox"/>
Friday - April 26 th	evening	<input type="checkbox"/>
Friday - April 26 th	15:30 - 17:00	<input checked="" type="checkbox"/>
Friday - April 26 th	18:30 - 20:00	<input checked="" type="checkbox"/>
Friday - April 26 th	21:30	<input type="checkbox"/>
Saturday - April 27 th	morning	<input type="checkbox"/>
Saturday - April 27 th	evening	<input type="checkbox"/>
Sunday - April 28 th	morning	<input checked="" type="checkbox"/>
Sunday - April 28 th	9:00 - 11:00	<input checked="" type="checkbox"/>
Sunday - April 28 th	12:30 - 14:00	<input checked="" type="checkbox"/>
Sunday - April 28 th	evening	<input type="checkbox"/>

Active Admin

A beautiful interface designed for real people.

Global Navigation

Customizable global navigation allows you to create usable admin interfaces for your business.

Scopes

Use scopes to create sections of mutually exclusive resources for quick navigation and reporting.

Index Styles

Index screens are available in many styles. The default, shown here, is a table view, but Active Admin also supports Grids, Blocks and a Blog view.

Order	State	Date	Customer	Total
#101	COMPLETE	May 07, 2011 19:00	grsabel	\$1,029.00
#100	COMPLETE	May 07, 2011 19:00	grsabel	\$568.00
#99	IN PROGRESS		grsabel	\$206.00
#98	COMPLETE	May 07, 2011 19:00	grsabel	\$123.00
#87	COMPLETE	May 07, 2011 19:00	grsabel	\$1,482.00
#86	COMPLETE	May 07, 2011 19:00	grsabel	\$1,675.00
#85	COMPLETE	May 07, 2011 19:00	grsabel	\$838.00
#84	COMPLETE	May 07, 2011 19:00	grsabel	\$309.00
#83	IN PROGRESS		grsabel	\$933.00
#82	COMPLETE	May 07, 2011 19:00	grsabel	\$906.00

User Authentication

Use the bundled Devise configuration or implement your own authorization using the provided hooks.

Action Items

Add buttons, links or other content in the "Action Items" section on each screen.

Filters

Allow users to filter resources by searching strings, text fields, dates, and numeric values.

Sidebar Sections

Customize the sidebar sections with a simple

Active Admin

```
9- index do
10-   column :id
11-   column :email
12-   column :name
13-   column :age
14-   column :sex
15-   column :location
16-   column :sign_in_count
17-   column :provider
18-   column :provider_uid
19-   default_actions
20- end
```



ID	Email	Name	Age	Sex	Location
1224	shyla0@gmail.com	Shyla Lee	24	Male	Freemont
1223	toah.koervoets@gmail.com	Toah Koervoets		Male	
1222	noosmpty@hotmail.com		30	Female	Copenhagen, Capital Region, Denmark
1221	deepek.john@gmail.com		31	Male	Berlin, Berlin, Germany
1220	nathan.assa@gmail.com	Nate Buckareff	20	Male	Montreal, Quebec, Canada

```
22- show do |en|
23-   attributes_table do
24-     row :email
25-     row :name
26-     row :chat_name
27-     row :age
28-     row :sex
29-     row :location
30-     row :sign_in_count
31-     row :provider
32-     row :provider_uid
33-     row :authentication_token
34-     row :registration_ip
35-     row :current_sign_in_ip
36-     row :last_sign_in_ip
37-
38-     row :Learnings do |user|
39-       user.learnings.map { |l| l.language.name }.join(' ')
40-     end
41-     row :Knowings do |user|
42-       user.knowings.map { |k| k.language.name }.join(' ')
43-     end
44-   end
45-   active_admin_comments
46- end
```



User Details	
EMAIL	nbounglu7@gmail.com
NAME	Fabio Argenti
CHAT NAME	EMPTY
AGE	34
SEX	Male
LOCATION	Verona, Veneto, Italy
SIGN IN COUNT	0
PROVIDER	google_oauth2
PROVIDER UID	103494026115860280126
AUTHENTICATION TOKEN	EMPTY
REGISTRATION IP	95.252.148.134
CURRENT SIGN IN IP	EMPTY
LAST SIGN IN IP	EMPTY
LEARNINGS	English
KNOWINGS	English

Active Admin

Active Admin Depot Customers **Dashboard** Orders Products

Dashboard

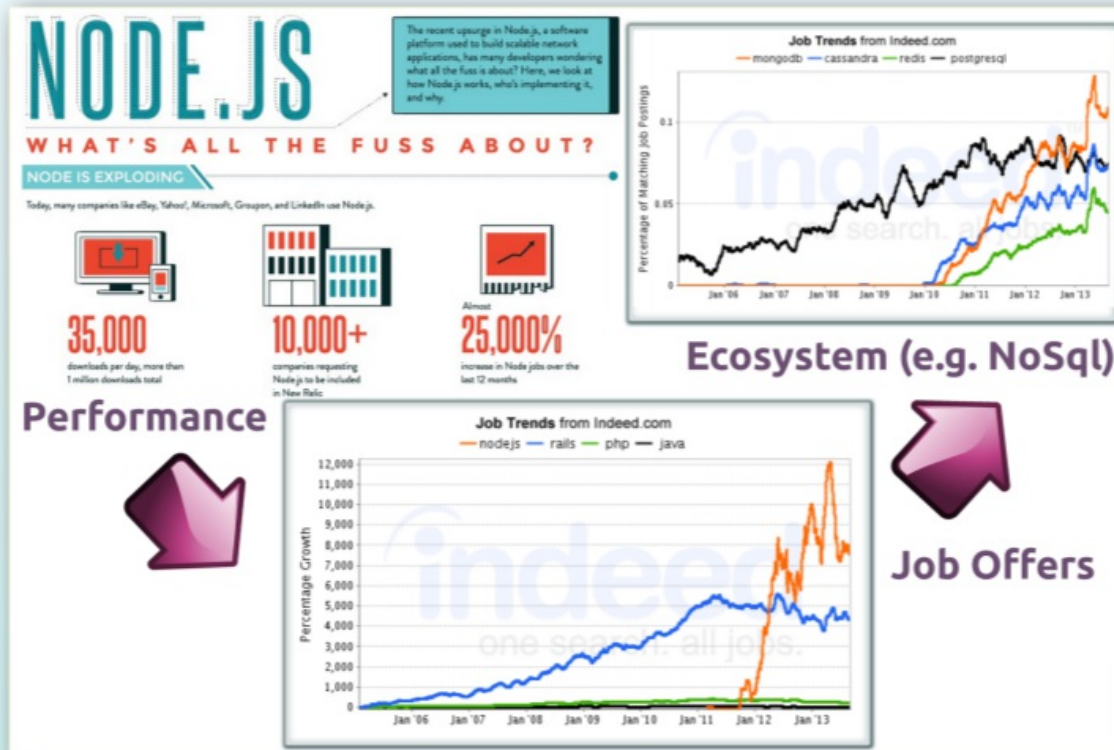
Recent Orders

STATE	CUSTOMER	TOTAL
COMPLETE	oceane_muller75@hamillfeeney.com	\$43.73
COMPLETE	rosie56@reilly.info	\$150.78
COMPLETE	newton16@braunswaniawski.net	\$182.74
COMPLETE	oren.botsford79@mertzsporer.info	\$31.17
COMPLETE	celine.waelchi83@douglashirthe.biz	\$189.33
COMPLETE	kristopher11@prosacco.biz	\$138.29
COMPLETE	deangelo12@lindgren.biz	\$115.51
COMPLETE	marian45@ebert.com	\$138.65
COMPLETE	maybelle_mraz4@labadie.net	\$28.21
COMPLETE	hulda_kshlerin48@russel.info	\$78.83

Recent Customers

EMAIL
amaya_lang99@harber.name
laurianne.sauer98@wuckert.name
deon97@reynoldsbaumbach.com
korey.sipes96@hackett.name
kade.bergstrom95@cormier.com
garth94@cremin.info
terrance.walker93@hodkiewicz.org
arnaldo.tromp92@schowalter.name
myrtis91@gleichnerconnelly.biz
bertrand_schoen90@herman.biz

Node.js & MongoDB



Node.js & MongoDB

Node.js

1. V8 JavaScript Engine
2. Javascript server side
3. I/O event-driven

Node.js & MongoDB

Node.js

1. V8 JavaScript Engine
2. Javascript server side
3. I/O event-driven

MongoDB

1. NoSQL: Not Only SQL
2. Modello basato su documenti JSON
3. Server-side JavaScript

Prima

The interface displays data for San Francisco. On the left, a table lists users with columns: id (PK), serial, name, character, left_user_id, right_user_id, and designated. A pink arrow points from the table to the map. The map shows the San Francisco Financial District with various colored zones. On the right, a 'WHEN' section shows a schedule of events for the week of April 24th to 29th, 2013, with time slots and event types.

id (PK)	serial	name	character	left_user_id	right_user_id	designated
26		M_BERLIN_T_Francesca_Rob	951	985	3	
27		M_BERLIN_U_Valeria_Adam	1826	876	3	
28		A_SF_E_Zachko_Lulu	846	1837	1	
29		M_BERLIN_V_Silke_Allan	605	1843	3	
30		M_BERLIN_Z_Mina_Stefano	969	1834	3	
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32		M_BERLIN_A2_Joelle_Stefo	962	1834	3	
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34		Nick_Dorlane	1480	1895	1	
35		Nick_Claudine	1480	1383	1	
36		Bernardette_Nick	1838			
37		Romeln_Nick	1878			
38		Mireia_Nick	535			
39		Sven_Nick	91			
40		Tin_and_Nick	1480			
41		Geoff_Jordi	134	1	1	1
42		Uline_Giulia_Eleonora	1488	1	1	1
43		SUP_Alessandro	1416	5	1	1

San Francisco Financial District

WHERE

WHEN

WEDNESDAY - APRIL 24TH
MORNING
WEDNESDAY - APRIL 24TH
EVENING
THURSDAY - APRIL 25TH
9:00 9:30 11:00 12:30 14:00
THURSDAY - APRIL 25TH
EVENING
FRIDAY - APRIL 26TH
MORNING
FRIDAY - APRIL 26TH
15:30 17:00 18:30 20:00 21:30
SATURDAY - APRIL 27TH
MORNING
SATURDAY - APRIL 27TH
EVENING
SUNDAY - APRIL 28TH
9:00 9:30 11:00 12:30 14:00
SUNDAY - APRIL 28TH
EVENING

Ora

The image shows a web browser window displaying a user profile for 'ALESSANDRO'. The profile includes a profile picture of a sloth in a spacesuit, a bio, and sections for 'Spending' and 'Learning' with buttons for 'Learn' and 'Share'. To the left, a terminal window displays the JSON data for the profile, with a pink arrow pointing from the terminal to the browser.

```
1  { "id": 12,
2    "firstName": "Alessandro",
3    "lastName": "Rossi",
4    "email": "a.rossi@company.com",
5    "password": "123456",
6    "profile": {
7      "bio": "I am a sloth in space.",
8      "location": "San Juan, Puerto Rico",
9      "interests": [
10       "space",
11       "sloths"
12     ]
13   },
14   "preferences": {
15     "language": "en",
16     "currency": "USD"
17   },
18   "social": {
19     "twitter": "alessandro_rossi",
20     "facebook": "alessandro.rossi"
21   },
22   "metadata": {
23     "created": "2023-10-27T10:30:00Z",
24     "updated": "2023-10-27T10:30:00Z"
25   }
26 }
```

MongoDB as an admin Platform

TBD

MongoDB as an admin Platform

Tipi di pagine

Collections : index

Documents : show

Domain Specific language (DSL)

```
9- index do
10-   column :id
11-   column :email
12-   column :name
13-   column :age
14-   column :sex
15-   column :location
16-   column :sign_in_count
17-   column :provider
18-   column :provider_uid
19-   default_actions
20- end
```



ID	Email	Name	Age	Sex	Location
1224	shyla0@gmail.com	Shyla Lee	24	Male	Freemont
1223	toah.koervoeh@gmail.com	Toah Koervoets		Male	
1222	noosmpty@hotmail.com		30	Female	Copenhagen, Capital Region, Denmark
1221	deepek.joh@gmail.com		31	Male	Berlin, Berlin, Germany
1220	nathan.assa@gmail.com	Nate Buckareff	20	Male	Montreal, Quebec, Canada

```
22- show do |@|
23-   attributes_table do
24-     row :email
25-     row :name
26-     row :chat_name
27-     row :age
28-     row :sex
29-     row :location
30-     row :sign_in_count
31-     row :provider
32-     row :provider_uid
33-     row :authentication_token
34-     row :registration_ip
35-     row :current_sign_in_ip
36-     row :last_sign_in_ip
37-
38-     row "Learnings" do |user|
39-       user.learnings.map { |l| l.language.name }.join(' ')
40-     end
41-     row "Knowings" do |user|
42-       user.knowings.map { |k| k.language.name }.join(' ')
43-     end
44-   end
45-   active_admin_comments
46- end
```



User Details	
EMAIL	nboungu7@gmail.com
NAME	Fabio Argenti
CHAT NAME	EMPTY
AGE	34
SEX	Male
LOCATION	Verona, Veneto, Italy
SIGN IN COUNT	0
PROVIDER	google_oauth2
PROVIDER UID	103494026115860280126
AUTHENTICATION TOKEN	EMPTY
REGISTRATION IP	95.252.148.134
CURRENT SIGN IN IP	EMPTY
LAST SIGN IN IP	EMPTY
LEARNINGS	English
KNOWINGS	English

Specifiche: requisiti minimi

- 1. DSL: linguaggio astratto per la specifica delle pagine**
- 2. Generazione automatica pagine sulla base del DSL scritto dallo sviluppatore**
- 3. Sistema di autenticazione email/password**
- 4. Stack tecnologico: Node.js/MongoDB**
- 5. Possibilità di effettuare il deployment su Heroku**

Requisiti opzionali: Ramo linguaggio

- 1. Estensione DSL: possibilità di definire pulsanti**
- 2. Creazione di nuovi Document all'interno della base dati, rispettando la business logic dell'applicazione generata**
- 3. Proposta proattiva del sistema di creazione di indici per il database, sulla base delle query più richieste attraverso il framework**

Requisiti opzionali: Ramo servizio

- 1. Adattare il framework sviluppato per offrire il prodotto come servizio web**
- 2. L'utente di MaaS essere in grado di produrre le proprie pagine direttamente da web**
- 3. Una volta definite le proprie pagine l'utente deve essere in grado di usufruire delle stesse direttamente da MaaS utilizzando un collegamento costruito ad-hoc**