

OST documentation

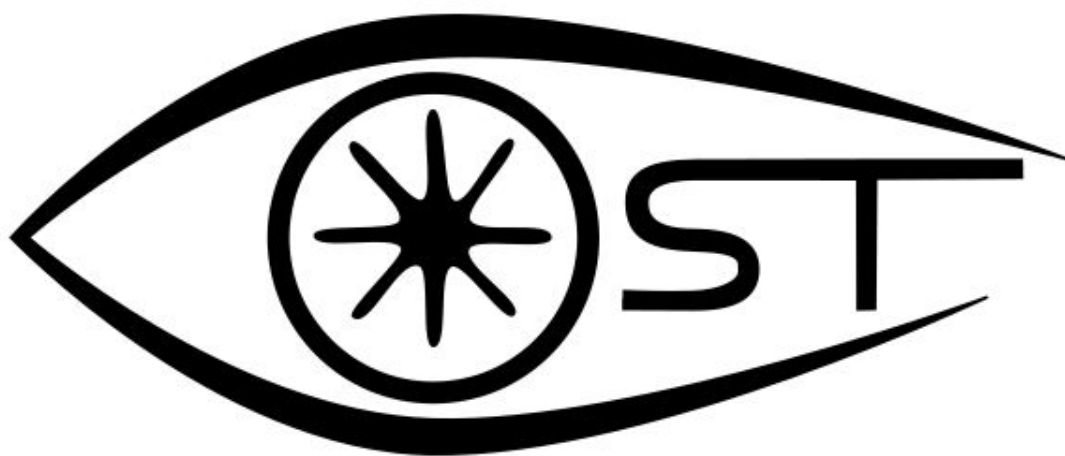


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1. Component diagram

Backend, frontend and database can be launched by one docker compose. Backend can connect with Testbed (Kafka) and with Keycloak (system to authorization).

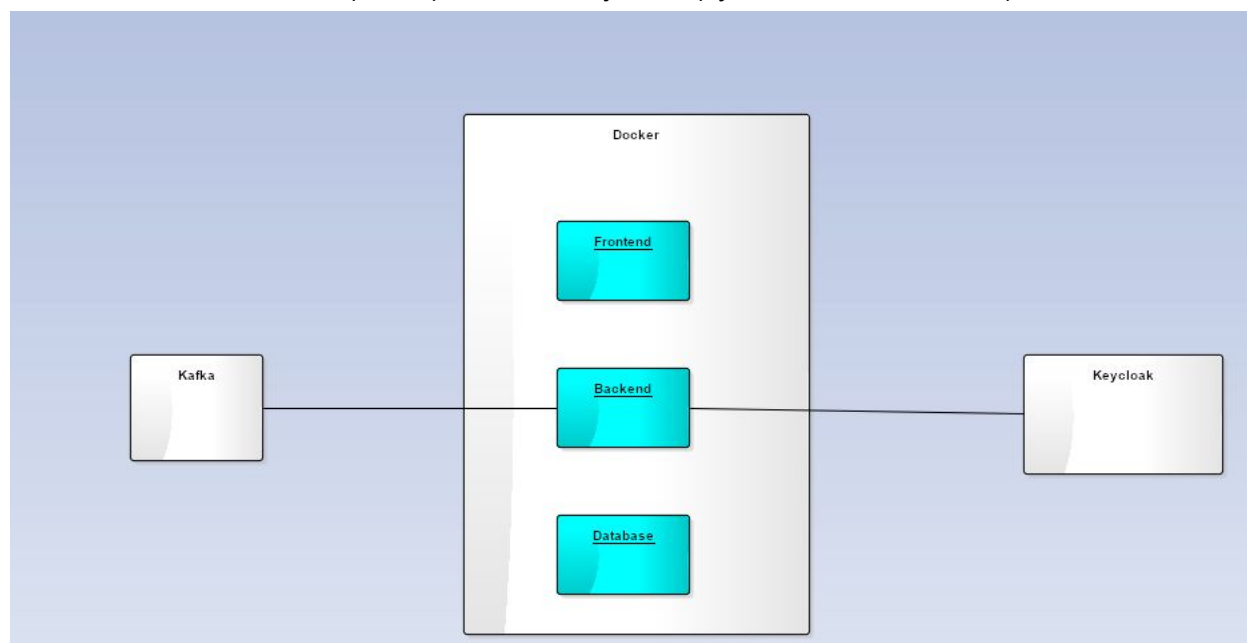


Figure 1. Component diagram of OST.

2. User Manual

User can login to server as admin or observer. Admin can manage trials, session, stages, roles, add question to roles and stages, add and edit users and control active session. Observer can answer on question and comment it.

Admin

Goal of admin is creating working session for observers. This process contains three stages: creating trial with questions, creating roles and assign them to question set and preparing

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session with users. To create questions admin should create trial, stages in trial, question sets in stages and question in question sets. Description can be find in subsection named „Creating trial with questions”. Second part is creating roles and assign them to question set (which already are assign to stage). It means, that question, which are available for observer, depends on stage and on role of logged observer. Last step is creating session with observers. Observers in other sessions can have other roles, so assignment user to role in session. Admin needn't create new users, if observers have their account in system. Description of this step can be find in subsection „Managing users and sessions”.

Creating trial with questions

Trial list

If we choose “TRIALS” from launch window we will be redirected to Trial List. There is a list of trials, which can be managed also we can upload after choosing “Import trial” button.

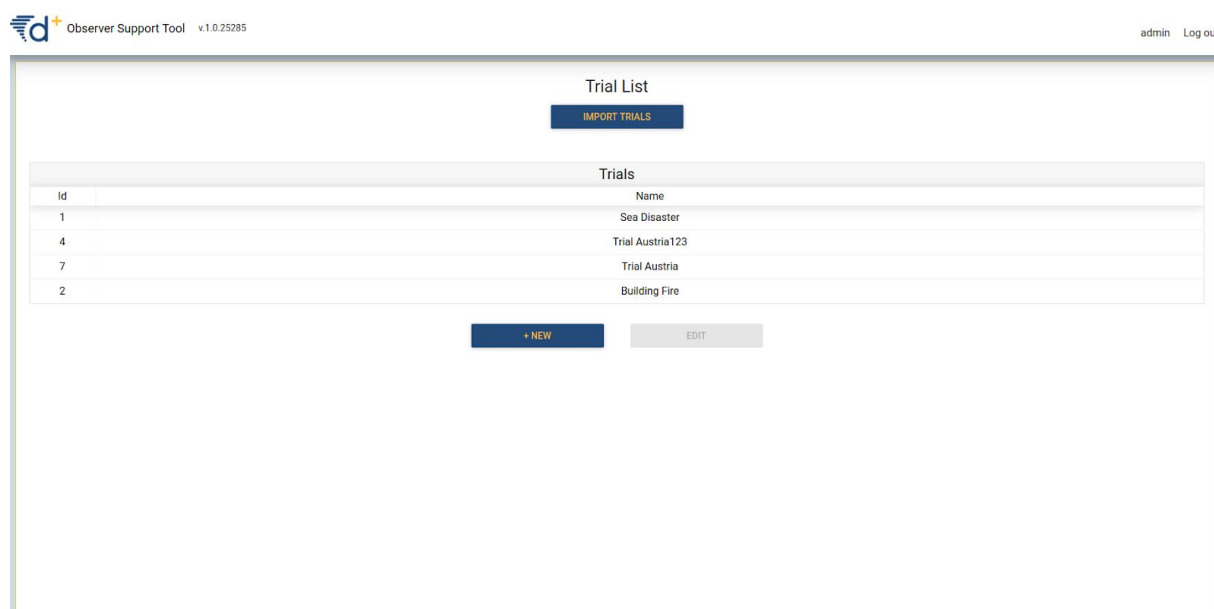



Figure 2. Trial list view

Trial details

After choosing trial from trial list and click edit or after double clicking left mouse button on trial from trial list, system redirects to trial details. There are basic details about trial and data about sessions, stages and roles in trial. Also trial can be edited and removed there.


Observer Support Tool v.1.0.25378
admin Log out

Trial
[Trial List](#)

Id

1

SAVE

Name

Sea Disaster

REMOVE

Description

The Vessel X has already left from port of Gdynia with 1600 passengers on –board. Captain receives an emergency about severe weather conditions. Because of that one of its cooling system has failed 5 hours after departure. The fire appears in the engine room. The crew have to call for external help.

SESSION		STAGE	ROLE	
Id	Name	Actual Stage Name	Manual	Status
1		Preparations		ACTIVE
2		Preparations		ACTIVE

+ NEW

EDIT

Figure 3. Trial detail view

Stage details

After choosing stage from trial details and click edit or after double clicking left mouse button on stage from trial details, system redirects to stage details. There are basic details about stage, which can be edited. Also stage can be deleted by admin. Question set list of chosen stage is below basic stage details. You can redirect to trial by clicking trial name above save button.

Stage
[Sea Disaster](#)

Id

1

SAVE

Name

Preparations

REMOVE

Question Set

Id	Name	Position
1	Situational awareness	
2	Communication	

+ NEW

EDIT

Figure 4. Stage detail view

Question set details

In question set details windows admin can change name or description also list of questions of this question set is shown. User can redirect to the chosen question by double clicking on question or clicking question and edit. You can redirect to trial or stage by clicking trial name or stage name above save button.

Observer Support Tool v.1.0.25681 admin Log out

Building Fire yyy.stage building Fire

Question Set

Id: 3

Name: Quality of Connection

Description: Questions collect data about the connection. Remind every problem you noticed.

Position: 1

SAVE REMOVE

Question			
Id	Name	Position	Type
14	What problems they had while connecting with db?	1	TEXT_FIELD
16	How long took connection with database?	1	SLIDER
15	How do you feel about quality of connection?	1	SLIDER

+ NEW EDIT

Figure 5. Question set detail view

Question details

In question details admin can modify question, description or type of answer. Also admin can add new options of choice, show them or remove. In question details parameters like commented and required can be set. You can redirect to trial, stage or question set by clicking trial name, stage name or question set name above save button. Question option can be add after saving question.

Observer Support Tool v.1.0.25681 admin Log out

Question Trial Austria Block1_Emergent_Groups_Telegram Block1_Emergent_Groups_Telegram

Id
17

Name
How many years of professional experience do you have

Description

Answer type
radio button

Question position
1

☐ Commented
☐ Required

Option			
Id	Value	Position	
27	0-2	0	
34	3-5	1	
35	6-10	2	
36	11-15	3	
37	15+	4	

SAVE
REMOVE

+ NEW
REMOVE

Figure 6. Question detail view

Creating roles and assign it to question set

Role details

After choosing role from trial details and click edit or after double clicking left mouse button on role from trial details, system redirects to role details. There are basic details about role, which can be edited. Also in role details we can manage of user assignment to role and question set, which should be show, when right stage is chosen. You can redirect to trial by clicking trial name above save button.

Observer Support Tool v.1.0.25681

admin Log out

Building Fire

Role

Id
4

Name
observer in hospital

Role Type
OBSERVER

SAVE

REMOVE

User Assignment		
Id	User name	Role name
6	Kamil Zandecki	observer in hospital

+ NEW REMOVE

Question Set		
Id	Name	Position
No rows found		

+ NEW EDIT

Figure 7. Role detail view

Managing users and sessions

Session details

New session can be created by clicking +New, when session window in trial detail is active. After choose session from trial details and click edit or after double clicking left mouse button on session from trial details, system redirects to session details. There are basic details about session, which can be edited or deleted, also data from session can be downloaded. In the user role table admin can assign role to user in this session. User can answer on question only if session is active.

Observer Support Tool v.1.0.25378 admin Log out

Session

Id: 2

Name: Sea Disaster

Status: Active

Current Stage: Preparations

SAVE REMOVE

DOWNLOAD OBSERVATIONS

Id	User name	User Role	Role name
No rows found			

+ NEW REMOVE

Figure 8. Session details view

Session tracking details

After clicking session from launch window, system redirects to session tracking detail. In session tracking details admin can control active sessions. There are informations, which trial is currently used, if session is controlled by testbed or manually (manual column) and which stage is active at this moment.

Observer Support Tool v.1.0.25794 admin Log out

Active Sessions				
Id	Name	Actual Stage Name	Manual	Status
18	Demo	Stage1	no	ACTIVE

Figure 9. Session tracking details view

User list

If we choosing “USERS” in launch window we will be redirected to User list. There are some basic data about user there.

Observer Support Tool v.1.0.25378 admin Logout

User List					
Id	Login	FirstName	LastName	Deleted	
16	AAAAAA	asd	asd	No	
1	admin	Jan	Zandecki	No	
2	Alice1	Grzegorz	Brzeczyszczykiewicz	No	
17	asasasa	asd	asd	Yes	
5	Doe1	Doe	Zandecki	No	
4	John1	John	Zandecki	No	

Previous Page 1 of 1 20 rows Next

Figure 10. User list view

User details

After choosing user from user list and click edit or after double clicking left mouse button on user from user list, system redirects to user details. There are basic details about user and data about sessions, stages and roles in trial.

Also user can be edited and removed there.

If we want to add new user, we should click +New on User list. Then system redirects to user detail and after filling data, system create new user. All fields are required.

User details

ID: 5 ☐ Deleted SAVE

Password

Confirm Password

First Name
Doe

Last Name
Zandecki

email
doe.zandecki@perpixel.co

Contact(Phone)

CANCEL

Figure 11. User details view

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Observer

Observer can login to server, when admin send him his login and password. After it he can login to system.

Question Set view

Observer after login to system can choosing from question set from active sessions (if question sets, during present stage in active session, are available to logged user).

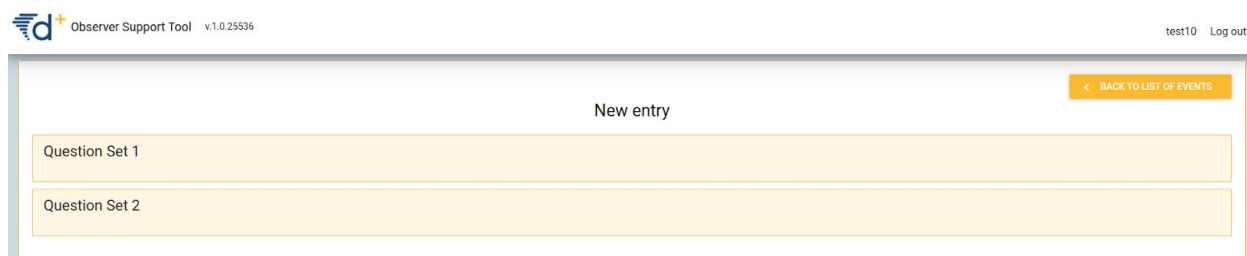


Figure 12. Question set view

Question view

Observer after choosing question set is redirected to questions from chosen question set. Observer can answer to question from this question set by writing text (textfield) or choosing option (checkbox, radiobutton, slider).

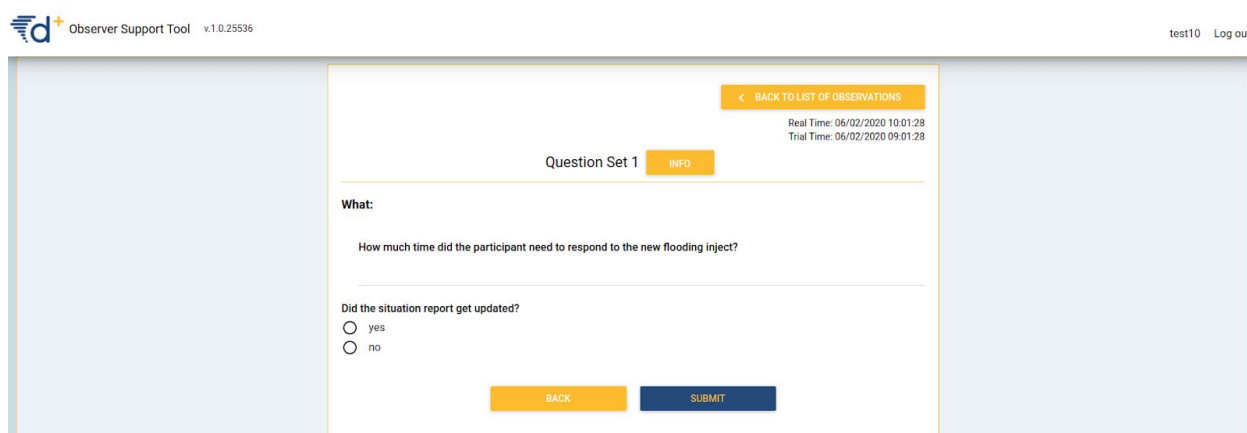


Figure 13. Question view

3. Deployment Manual

1. Download docker from <https://www.docker.com/>.
2. Create file and name it *docker-compose.yml*
3. Open this file and paste to this file text below:

```
version: '3'
services:
  zookeeper:
    image: confluentinc/cp-zookeeper:latest
    hostname: zookeeper
    ports:
      - "3500:3500"
    environment:
      ZOOKEEPER_CLIENT_PORT: 3500
      ZOOKEEPER_TICK_TIME: 2000
  broker:
    image: confluentinc/cp-kafka:latest
    hostname: broker
    depends_on:
      - zookeeper
    ports:
      - "3501:3501"
    environment:
      KAFKA_BROKER_ID: 1
      KAFKA_ZOOKEEPER_CONNECT: 'zookeeper:3500'
      KAFKA_ADVERTISED_LISTENERS: 'EXTERNAL://localhost:3501,PLAINTEXT://broker:9092'
      KAFKA_LISTENER_SECURITY_PROTOCOL_MAP:
        'EXTERNAL:PLAINTEXT,PLAINTEXT:PLAINTEXT'
      KAFKA_LISTENERS: 'EXTERNAL://0.0.0.0:3501,PLAINTEXT://0.0.0.0:9092'
      KAFKA_OFFSETS_TOPIC_REPLICATION_FACTOR: 1
      KAFKA_DEFAULT_REPLICATION_FACTOR: 1
      KAFKA_MESSAGE_MAX_BYTES: 100000000
      KAFKA_REPLICA_FETCH_MAX_BYTES: 100000000
  schema_registry:
    image: confluentinc/cp-schema-registry:latest
    hostname: schema_registry
    depends_on:
      - zookeeper
      - broker
    ports:
```

```

- "3502:3502"
environment:
  SCHEMA_REGISTRY_HOST_NAME: schema_registry
  SCHEMA_REGISTRY_LISTENERS: 'http://0.0.0.0:3502'
  SCHEMA_REGISTRY_KAFKASTORE_CONNECTION_URL: 'zookeeper:3500'
  SCHEMA_REGISTRY_KAFKASTORE_BOOTSTRAP_SERVERS: 'PLAINTEXT://broker:9092'

kafka_rest:
  image: confluentinc/cp-kafka-rest:latest
  hostname: kafka_rest
  depends_on:
    - zookeeper
    - schema_registry
    - broker
  ports:
    - "8082:8082"
  environment:
    KAFKA_REST_HOST_NAME: kafka_rest
    KAFKA_REST_BOOTSTRAP_SERVERS: 'PLAINTEXT://broker:9092'
    KAFKA_REST_ZOOKEEPER_CONNECT: 'zookeeper:3500'
    KAFKA_REST_LISTENERS: 'http://0.0.0.0:8082'
    KAFKA_REST_SCHEMA_REGISTRY_URL: 'http://schema_registry:3502'
    KAFKA_CONSUMER_REQUEST_TIMEOUT_MS: 30000
    KAFKA_REST_ACCESS_CONTROL_ALLOW_METHODS:
'GET,POST,PUT,DELETE,OPTIONS'
    KAFKA_REST_ACCESS_CONTROL_ALLOW_ORIGIN: '*'

kafka_topics_ui:
  image: landoop/kafka-topics-ui:latest
  hostname: kafka_topics_ui
  depends_on:
    - kafka_rest
  ports:
    - "3600:8000"
  environment:
    KAFKA_REST_PROXY_URL: 'http://kafka_rest:8082'
    PROXY: 'true'

kafka_schema_registry_ui:
  image: landoop/schema-registry-ui:latest
  hostname: kafka_schema_registry_ui
  depends_on:
    - schema_registry
  ports:
    - "3601:8000"
  environment:
    SCHEMAREGISTRY_URL: 'http://schema_registry:3502'
    PROXY: 'true'

postgres:
  image: postgres:9.6

```

```

hostname: postgres
environment:
  POSTGRES_USER: postgres
  POSTGRES_PASSWORD: postgres
  POSTGRES_DB: TRIAL_ADMIN
volumes:
  - postgres-data:/var/lib/postgresql/data
# restart: unless-stopped

admintool:
  image: drivereu/test-bed-admin:latest
  depends_on:
    - postgres
    - broker
    - schema_registry
  ports:
    - "8090:8090"
  volumes:
    - ./admintool-config/gateways.json:/opt/application/config/gateways.json
    - ./admintool-config/solutions.json:/opt/application/config/solutions.json
    - ./admintool-config/topics.json:/opt/application/config/topics.json
    - ./admintool-config/standards.json:/opt/application/config/standards.json
    - ./admintool-config/testbed-solutions.json:/opt/application/config/testbed-solutions.json
    - ./admintool-config/testbed-topics.json:/opt/application/config/testbed-topics.json
    - ./admintool-config/configurations.json:/opt/application/config/configurations.json
  environment:
    KAFKA_BROKER_URL: broker:9092
    SCHEMA_REGISTRY_URL: http://schema_registry:3502
    zookeeper_host: zookeeper
    zookeeper_port: 3500
    schema_registry_url: http://schema_registry:3502
    testbed_secure_mode: 'DEVELOP'
    testbed_init_auto: 'false'
    management_ca_cert_path: http://localhost:9090
    cert_handler_url: https://localhost:8443
    cert_pem_handler_url: https://localhost:8443
    security_rest_path_group: https://localhost:9443
    security_rest_path_topic: https://localhost:9443

afteractionreview:
  image: drivereu/after-action-review:latest
  depends_on:
    - postgres
    - broker
    - schema_registry
  ports:
    - "8095:8095"
  environment:
    KAFKA_BROKER_URL: broker:9092
    SCHEMA_REGISTRY_URL: http://schema_registry:3502

```

```

    zookeeper_host: zookeeper
    zookeeper_port: 3500
    schema_registry_url: http://schema_registry:3502

pgadmin:
    image: fenglc/pgadmin4
    depends_on:
      - postgres
    ports:
      - "5050:5050"
# restart: unless-stopped

time_service:
    image: drivereu/test-bed-time-service:latest
    depends_on:
      - broker
      - schema_registry
    ports:
      - "8100:8100"
    environment:
      KAFKA_BROKER_URL: broker:9092
      SCHEMA_REGISTRY_URL: http://schema_registry:3502
      AUTO_REGISTER_SCHEMAS: 'true'

large_file_service:
    image: drivereu/large-file-service:latest
    ports:
      - "9090:9090"
    environment:
      HOST: localhost
      PORT: 9090

# wms_service:
# image: drivereu/test-bed-wms-service:1.0.10
# hostname: wmservice
# environment:
# URL: http://localhost/wms/
# WMS_PORT: 5101
# WMS_HOST: wmservice
# WMS_FOLDER: /server/data
# WMS_EXTERNAL_PORT: 5101
# WMS_EXTERNAL_HOST: http://localhost/wms/
# WMS_EXTERNAL_ADDRESS: http://localhost/wms/
# WMS_KAFKA_HOST: broker:9092
# WMS_SCHEMA_REGISTRY: http://schema_registry:3501
# WMS_CORS_ORIGIN: https://oefen-veiligheidsregio.lcms.nl
# WMS_CORS_HEADERS: 'authorization, content-type'
# ports:
# - 8101:5101
# depends_on:

```

```

# - broker
# - schema_registry

trial_management_tool:
  image: drivereu/trial-management-tool:latest
  depends_on:
    - broker
    - schema_registry
  ports:
    - '3210:3210'
  environment:
    CLIENT_ID: TB-TrialMgmt
    KAFKA_HOST: broker:9092
    SCHEMA_REGISTRY: http://schema_registry:3502
    TRIAL_MANAGER_SERVER_PORT: 3210
    PRODUCE:
system_request_change_of_trial_stage,system_tm_phase_message,system_tm_role_player,system_tm_session_mgmt
  SSL: 'false'
  SSL_PFX: certs/TB-TrialMgmt.p12
  SSL_PASSPHRASE: changeit
  SSL_CA: certs/test-ca.pem
  volumes:
    - trial-data:/app/trials

ost_db:
  image: janbalbierzitti/ost_database:fddr2_2
  ports:
    - "5437:5432"
  volumes:
    - database-OST:/var/lib/postgresql/data
# restart: always

ost_web:
  image: janbalbierzitti/ost_frontend:fddr2_2
  links:
    - ost_api
  ports:
    - "127.0.0.1:85:80"
    - "127.0.0.1:445:443"
# restart: always

ost_api:
  image: janbalbierzitti/ost_backend:fddr2_2
  links:
    - ost_db
  ports:
    - "8080:8080"
# restart: always

```



```

silent-producer:
  image: silent-producer
  depends_on:
    - broker
    - schema_registry
  environment:
    KAFKA_HOST: broker:9092
    SCHEMA_REGISTRY: http://schema_registry:3502
    PRODUCE_TOPICS:
simulation_request_unittransport,simulation_request_startinject,simulation_entity_item,sumo_Affec
tedArea,standard_cap,system_timing,system_topic_access_invite
volumes:
  database-OST:
  postgres-data:
  trial-data:

```

4. Go back to the required folder.
5. If you are windows user
 - 5.1. Press **Shift + right click** mouse button anywhere on the folder window (this folder must have file docker-compose.yml).
 - 5.2. Choose open powershell
 - 5.3. Write in terminal **docker-compose up** and press enter
6. If you are linux/ubuntu user
 - 6.1. Press **right click** mouse button anywhere on the folder window (this folder must have file docker-compose.yml).
 - 6.2. Choose open terminal
 - 6.3. Write there **docker-compose up** and press enter
7. Congratulation, your application has been just turned on.

4. API

1. Get /api/answers

Api let us see answer of trial session including some text inside.

@RequestParam("trialsession_id") long trialSessionId,

@RequestParam("search") String text

Produces Json

TrialUserDTO.ListItem user

String Name

String observationTypeName

String observationTypeDescription

2. Get /api/answers/csv-file

Api let us load CSV file with answers of session.

@RequestParam(value = "trialsession_id") long trialSessionId

Return null

3. Delete /api/answers/{answer_id:\\d+}/remove

Api let us delete answer.

@PathVariable(value = "answer_id") long answerId,

@RequestParam("comment") String comment

Return null

4. GET /api/answers-events

Api let us see all answers and events in session of current user.

@RequestParam(value = "trialsession_id") long trialSessionId

Produces JSON

long id;

long observationTypeId;

String name;

String description;

ZonedDateTime time;

ZonedDateTime trialTime;

String type;

5. Get /api/event/search

Api returns list of events in session.

@RequestParam(value = "trialsession_id") long trialSessionId

Produces JSON

public String firstName;

public String lastName;

public String trialRoleName;

6. GET /api/observationtypes

Api returns list of question

sets

@RequestParam("trialsession_id") Long trialSessionId

Long answersId

String name

String description

7. GET /api/observationtypes/form

Api returns roles, which can answer on question set.

@RequestParam("observationtype_id") Long observationTypeId,

@RequestParam("trialsession_id") Long trialSessionId

Return json

List<TrialRoleDTO.ListItem> roles

JsonNode jsonSchema,

where in roles are two variables:

long id,

String name

8. /api/observationtypes/admin/addNewQuestionSet

@RequestBody

String name

String description

long trailStageId;

long trailId;

boolean multiplicity;

boolean withUsers;

int position;

List<AdminQuestionDTO.ListItem> questions = new ArrayList<>();

Return response with http status and json

long id

String name

String description

long trailStageId;

long trailId;

boolean multiplicity;

boolean withUsers;

int position;

List<AdminQuestionDTO.ListItem> questions = new ArrayList<>();

9. GET /api/observationtypes/admin/getNewQuestionSet

Api let us get question set from chosen stage.

@RequestParam(value = "id") long id

Return response with http status and json

long id

String name

String description

long trailStageId;

long trailId;

boolean multiplicity;

boolean withUsers;

int position;

List<AdminQuestionDTO.ListItem> questions = new ArrayList<>();

10. **PUT /api/observationtypes/admin/updateQuestionSet**
 Api let admin update question set.
@RequestBody
 String name
 String description
 long trailStageId;
 long trailId;
 boolean multiplicity;
 boolean withUsers;
 int position;
 List<AdminQuestionDTO.ListItem> questions = new ArrayList<>();
Return response with http status and json
 long id
 String name
 String description
 long trailStageId;
 long trailId;
 boolean multiplicity;
 boolean withUsers;
 int position;
 List<AdminQuestionDTO.ListItem> questions = new ArrayList<>();

11. **DELETE /api/observationtypes/admin/deleteQuestionSet**
 Api let admin delete question set from a stage.
@RequestParam(value = "id") long id
Return response with http status and string

12. **GET /api/questions-answers**
 Api returns data about answer and question.
@RequestParam(value = "answer_id") long answerId
@Produces JSON
 long answerId
 String name (of observatory type)
 String description (of observatory type)
 String time
 String trialTime
 JsonNode questionSchema
 JsonNode formData
 JsonNode trialRoles

13. **POST /api/questions-answers/{answer_id:\d+}/comment**

Api let observer add comment to answer.
 @PathVariable(value = "answer_id") long answerId,
 @RequestParam("comment") String comment
Return null

14. **Get /api/trial-time**

Api let us know server time.

Return String with date

15. **Get /api/time-elapsed**

Api let us know local time.

Return String with date

16. **GET /api/role**

Api shows all roles in chosen trial.

Return list of roles with:

long id

String name

String roleType

17. **GET api/stages**

Api shows all stages

Return list of stages with:

long trialId

String name

LocalDateTime simulationTime

18. **POST api/stages/admin/addNewTrialStage**

Api let us add stage to chosen trial.

@RequestBody(

long id

long trialId

String name)

Return response with http request status and in body are:

Long trialId

Long id

String name

19. **GET api/stages/admin/trialStageWithQuestions**

Api returns stage with id

@RequestParam(value = "id") long id

Return response with http request status and in body are:

Long trialId

Long id
 String name
 LocalDateTime simulationTime;
 List<AdminObservationTypeDTO.ListItem> questions = new ArrayList<>()

20. DELETE api/stages/admin/deleteTrialStage

Api delete a trial's stage.

@RequestParam(value = "id") long id

Return response with a http request status and a String
"Trial Stage id =" + id + " is deleted".

21. PUT api/stages/admin/updateTrialStage

Api update a trial's stage.

long id

long trialId

String name

Return

long id

long trialId

String name

22. GET /api/role

Api shows all roles in chosen trial.

Return list of roles with:

long id

String name

String roleType

23. GET /api/trialsessions/{trialsession_id:\d+}

Api shows data about chosen trial session.

@PathVariable(value = "trialsession_id") long answerId

Return json with:

long trialId

String trialName

String trialDescription

String lastTrialStage

24. GET /api/trialsessions

Api shows list of trial session.

Api shows all trials, which are available for logged user.

Return list of trials with:

long trialId
 String trialName
 String trialDescription
 String lastTrialStage

25. GET /api/trialsessions/active

Api shows list of active trial session available from logged user.

Return list of trials:

long trialId
 String trialName
 String trialDescription
 String lastTrialStage
 long initId
 Boolean initHasAnswer
 String name

26. PUT /api/trialsessions/{trialsession_id:\d+}/changeStatus

Api let us change status of trial session.

@PathVariable(value = "trialsession_id") long trialSessionId,
 @RequestParam(value = "status") String status

Return null

27. GET /api/trialsessions/manual/{trialsession_id}/{is_manual}

Api let us choose if stages of trial will be change manually or automatically.

@PathVariable long trialsession_id,
 @PathVariable boolean is_manual

Return String

"current stage in session " + trialSession.getId() + " is: "
 + trialSession.getLastTrialStage().getId() +
 "/" + trialSession.getLastTrialStage().getName()
 + " manual mode is " + isManual

28. PUT /api/trialsessions

Api let change stage of trial session

@PathVariable(value = "id") Long trialSessionId,
 @RequestBody @Validated TrialStageDTO.MinimalItem minimalItem,
 Where minimalItem is json {id:value}

Return json

long trialId;
 Long lastTrialStageId;
 LocalDateTime startTime;
 LocalDateTime pausedTime;

29. **POST /api/trialsessionscreateNewSessionFile**
 Api let administrator create new session users and create file with their usernames and passwords.
 @RequestBody NewSessionForm newSessionForm,
 Where newSessionForm is a json
 {long trialId
 String initialStage
 String prefix
 String status
 List<UserForm> users}, where
 UserForm is a json
 {String email
 List<String> role}
- Return null**
30. **GET /api/trialsessions/trials**
 Api shows all trails, which current user is a session manager.
Return Map(Id : Long, name : String)
31. **POST /api/trialsessionsnewSessionValues**
 Api returns data about trial.
 @RequestParam(value = "trial_id") long trialId
Return trial node, in trial node we can find
 trialStages, trialRoles, authUsers
32. **POST /api/trialsession/admin/addNewUserRoleSession**
 Api let us add user to role in trial's session.
 @RequestBody
 long trialUserId
 long trialRoleId
 long trialSessionId
- Return adminUserRoleDTO**
33. **DELETE /admin/deleteUserRoleSession**
 Api let us delete user from trial's session.
 @RequestParam(value = "trialRoleId") long trialRoleId,
 @RequestParam(value = "trialUserId") long trialUserId,
 @RequestParam(value = "trialSessionId") long trialSessionId

Return Response with http status and string “Trial user session is deleted”

34. **GET /api/ostAllQuestionsForMobile**

Api returns data about questions set.

Return List<ObservationTypeDTO.SchemaItem>

List<Long> answersId

String name

String description

long id

List<TrialRoleDTO.ListItem> roles

JsonNode jsonSchema, where jsonSchema is schema of all questions in question set.

35. **GET api/ostTrialId**

Api returns id of Trial.

Return Long

36. **GET api/ostTrialSessionId**

Api returns id of Trial Session.

Return Long

37. **GET api/ostTrialStageId**

Api returns id of Trial Stage.

Return Long

38. **POST api/admin/addNewTrial**

Api let user create trial with name and default parameters

```
private long trialIdString
trialName
String trialDescription
String lastTrialStage
private Boolean archived
```

Return json

```
long trialIdString
trialName
String trialDescription
String lastTrialStage
Boolean archived
```

39. POST api/admin/updateTrial

Api let edit trial.

Request Body AdminTrialDTO.ListItem

long trialId;String trialName

String trialDescription

String lastTrialStage

Boolean archived

Return json

long trialId

String trialName

String trialDescription

String lastTrialStage

Boolean archived

40. GET api/ostTrail

Api returns active Sessions and their actual stages.

RequestParam(value = "trial_name") String trialName

Return String of actual sessions and stages.

41. GET api/stages

Api returns stages of chosen session.

@RequestParam(value = "trial_id") long trialId, Pageable pageable)

Return PageDTO<TrialStageDTO.ListItem>.

In the json are:

long trialId

String name

LocalDateTime simulationTime,

long id.

42. GET api/user

Api shows users in chosen trial session.

RequestParam(value = "trialsession_id") long trialSessionId, Pageable pageable

Return PageDTO<TrialUserDTO.ListItem>

In the json are:

long id

String firstName

String lastName

43. GET api/user/version

Api shows actual version of application.

Return String44. **POST api/questions/admin/addNewQuestion**

Api let add question to question set.

```
@RequestBody
String name
String description
long observationTypeId
AnswerType answerType
int position
String jsonSchema
boolean commented
```

Return response with http status and json

```
long id;
String name;
String description;
long observationTypeId;
AnswerType answerType
int position
String jsonSchema
boolean commented
```

45. **GET api/questions/admin/getFullQuestion**

Api let us get details about question.

```
@RequestParam(value = "id") long id
```

Return response with http status and json

```
long id;
String name;
String description;
long observationTypeId;
AnswerType answerType
int position
String jsonSchema
boolean commented
```

46. DELETE api/questions/admin/deleteQuestion

Api let us delete question from question set.

(@RequestParam(value = "id") long id)

Return response with http status and string

"Question id =" + id + " is deleted"

47. PUT api/questions/admin/updateQuestion

Api let us update question.

@RequestBody

String name

String description

long observationTypeId

AnswerType answerType

int position

String jsonSchema

boolean commented

Return response with http status and json

long id;

String name;

String description;

long observationTypeId;

AnswerType answerType

int position

String jsonSchema

boolean commented

5. Database

This database is used in OST system.

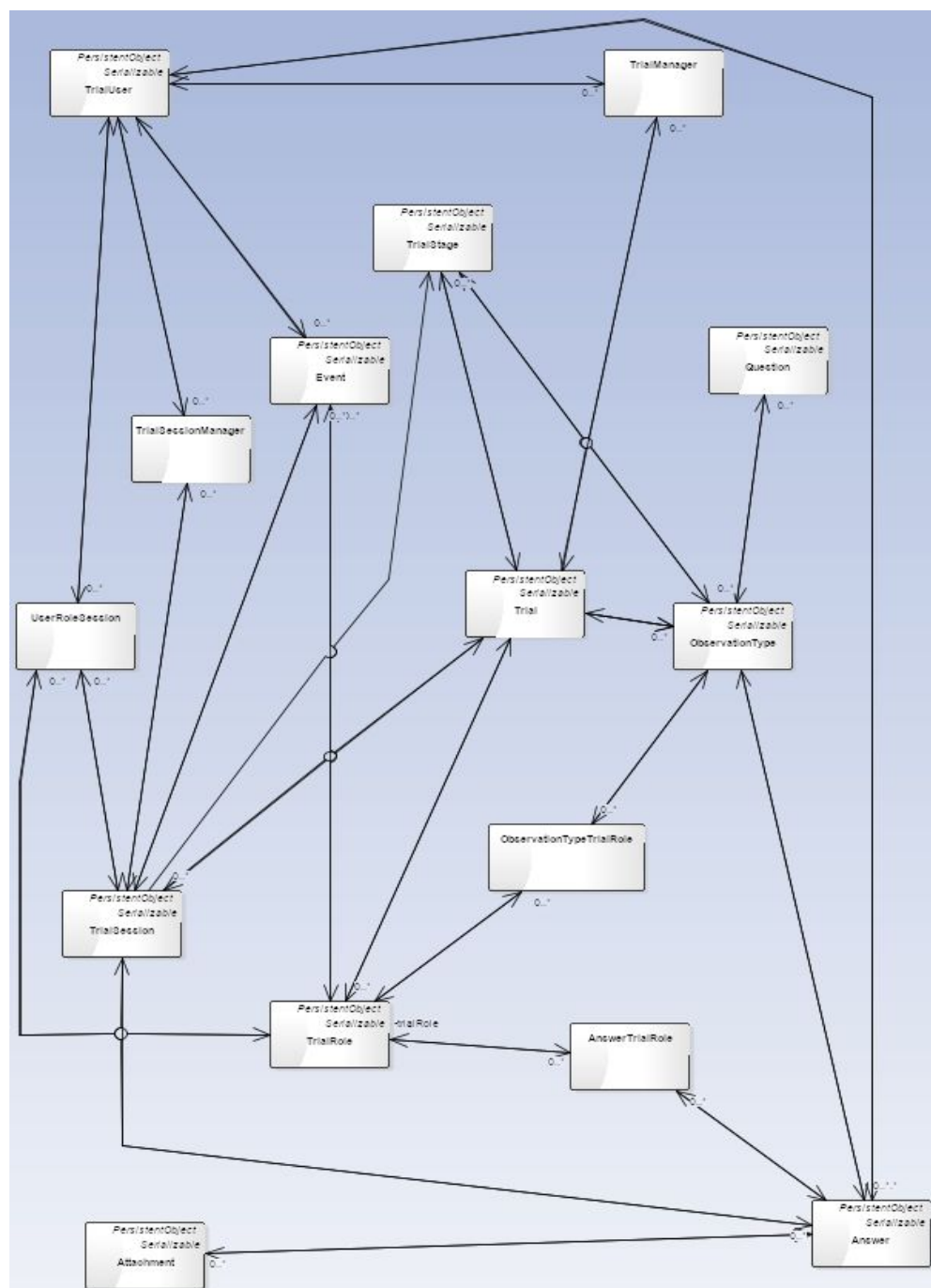


Figure 14. Schema of database

In this model ObservationType=Question Set.