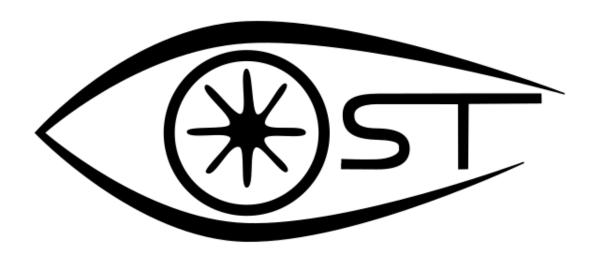
OST documentation



Document Title:	ITTI Orbits- User Manual			
Document Reference:				
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Abstract				
Deliverable: User manual – draft version, backend rest api, database, component diagram				

Action	Name	Function	Signature	Date
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Issue	Date	Description
0.1	2020-06-30	Creation of the document
0.2	2021-12-10	Manual update

Table of Content

Table of Content	3	
Component diagram	4	
User Manual	4	
Admin	6	
Creating trial with questions	6	
Trial list	6	
Trial details	7	
Stage details	8	
Question set details	8	
Question details	9	
Role details	10	
Managing users and sessions	10	
Session details	10	
Session tracking details	11	
User list	11	
User details	12	
Observer	13	
Question Set view	13	
Question view	13	
Event view	14	
Deployment Manual	14	
API description	20	
Database		
Environmental variable	33	

1. Component diagram

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

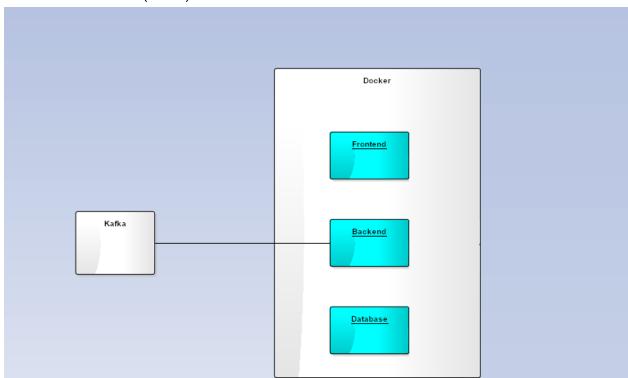


Figure 1. Component diagram of OST.

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.

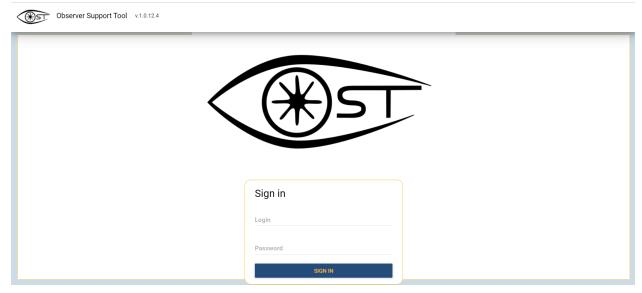


Figure 2. Starting page

After clicking "SIGN IN" user is redirected to main page (depending on users role). If a user log in to admin account, then he will be redirected to main view of admin (look at Figure 3), else user will be redirected to observer view.

Admin

Goal of the admin is creating a working session for observers. This process contains three stages: creating trials with questions, creating roles and assigning them to question sets and preparing sessions with users. To create questions admin should create trial, stages in trial, question sets in stages and question in question sets. Description can be found in the subsection named "Creating trial with questions". Second part is creating roles and assigning them to a question set (which already are assigned to stage). It means that questions, which are available for the observer, depend on the stage and on the role of the logged observer. Last step is creating a session with observers. Observers in other sessions can have other roles, so assign user to role in session. Admin needn't create new users, if observers have their account in the system. Description of this step can be found in subsection "Managing users and sessions".

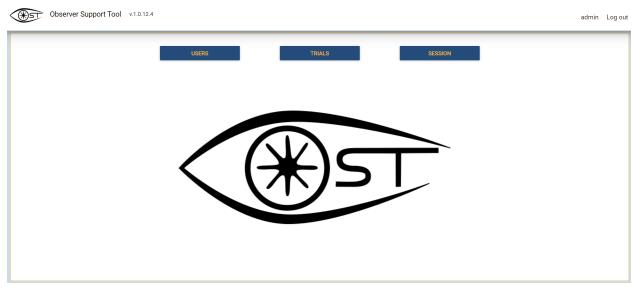


Figure 3. Page after log in as admin

Creating trial with questions

Trial list

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

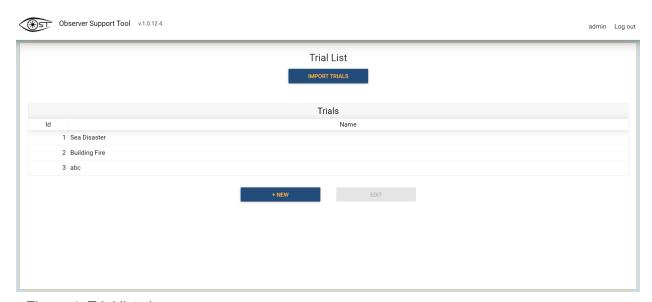


Figure 4. Trial list view

Trial details

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

Also trials can be edited and removed there.

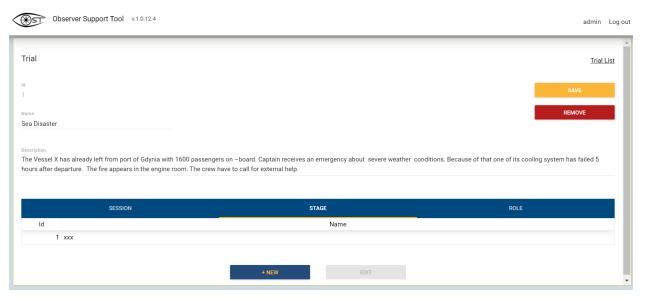


Figure 5. Trial detail view

Stage details

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

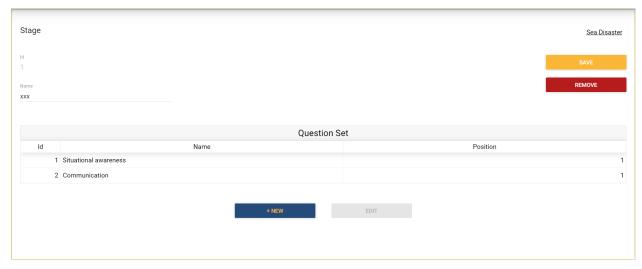


Figure 6. Stage detail view

Question set details

In the question set details windows admin can change name or description also list of questions of this question set is shown. Users 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 the trial name or stage name above the save button.

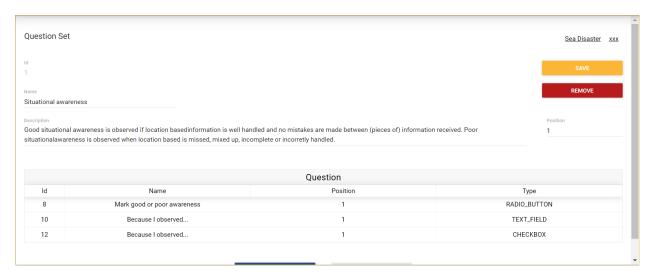


Figure 7. Question set detail view

Question details

In question details, the admin can modify the 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 the save button.

Question options can be added after saving the question.

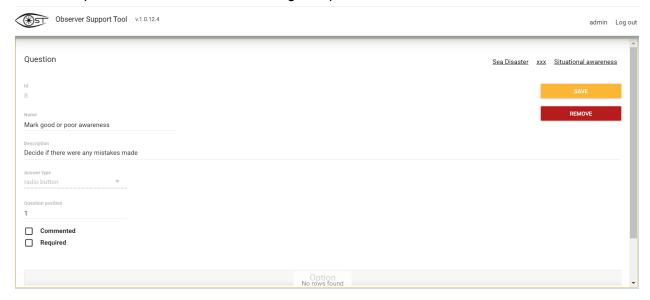
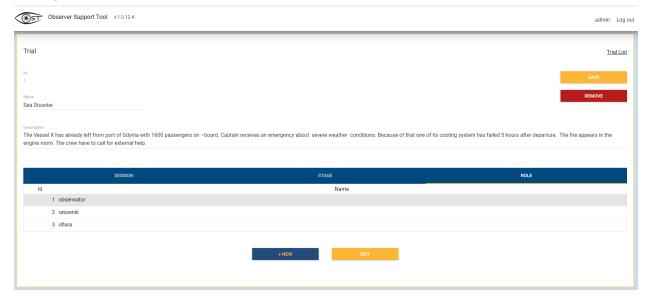


Figure 8. Question detail view

Creating roles and assign it to question set

Role details

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



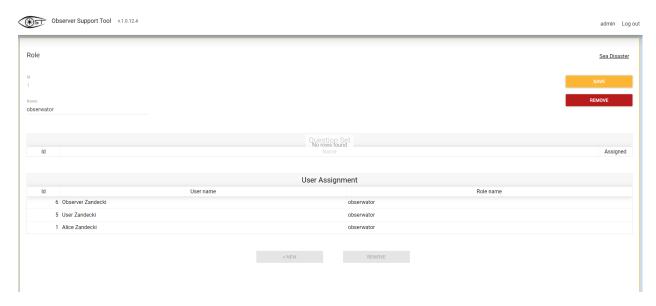


Figure 9. Role detail view

Managing users and sessions

Session details

New session can be created by clicking +New, when the session window in trial detail is active. After choosing a session from trial details and clicking edit or after double clicking the left mouse button on session from trial details, system redirects to session details. There are basic details about the session, which can be edited or deleted, also data (answer of observers, date of trial, date of server etc) from the 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.

Session tracking details

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



Figure 10. Session details view

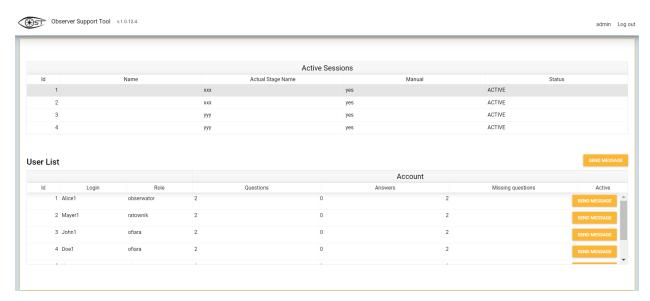


Figure 11. Session tracking details view

User list

If we choose "USERS" in the launch window we will be redirected to the User list. There is some basic data about users there.

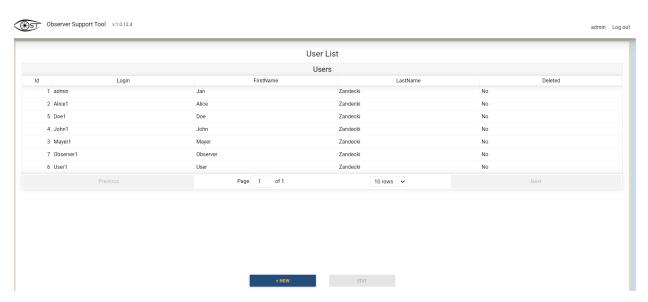


Figure 12. User list view

User details

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

Also user can be edited and removed there.

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



Figure 13. User details view

Observer

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

Question Set view

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

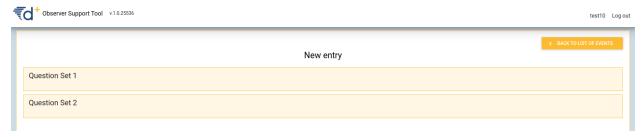


Figure 14. Question set view

Question view

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

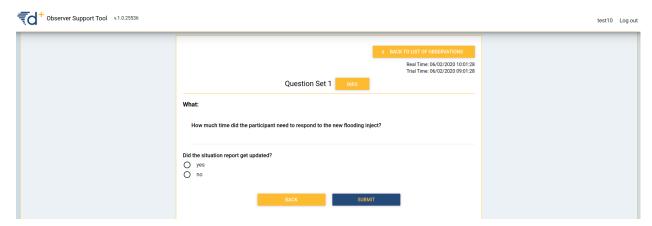


Figure 15. Question view

Event view

Event view is a page, where an observer can look at a set of his/her comment. After choosing question set observer can comment his answer, view his answer or delete his answer.



Figure 16. Event view

Deployment Manual

- 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'

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: wmsservice
# environment:
# URL: http://localhost/wms/
    WMS_PORT: 5101
    WMS_HOST: wmsservice
    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,syste
m 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: drivereu/ost_database:1.0.29143
ports:
  - "5437:5432"
 volumes:- database-OST:/var/lib/postgresql/data
# restart: always
ost_web:
 image: drivereu/ost_frontend:1.0.29143
 links:
 - ost api
 ports:
 - "127.0.0.1:85:80"
 - "127.0.0.1:445:443"
     restart: always
ost api:
 image: drivereu/ost_backend:1.0.29143
 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_AffectedArea,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 the 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. Congratulations, your application has just been turned on.

API description

1. Get /api/answers

Api lets us see the 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 lets us load a CSV file with the answers of the session.

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

Return null

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

Api lets us delete answers.

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

@RequestParam("comment") String comment

Return null

4. GET /api/answers-events

Api lets us see all answers and events in the session of the 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 a list of events in session.

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

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 trailld;

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 trailld;

boolean multiplicity;

boolean withUsers;

int position;

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

9. GET /api/observationtypes/admin/getNewQuestionSet

Api lets us get a question set from the chosen stage.

@RequestParam(value = "id") long id

Return response with http status and json

long id

String name

String description

long trailStageId;

long trailld;

boolean multiplicity;

boolean withUsers;

int position;

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

10. PUT /api/observationtypes/admin/updateQuestionSet

Api lets the admin update the question set.

@RequestBody

String name

String description

long trailStageId;

long trailld;

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 trailld;

boolean multiplicity;

boolean withUsers;

int position;

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

11. DELETE /api/observationtypes/admin/deleteQuestionSet

Api lets the admin delete the 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 answers and questions.

@RequestParam(value = "answer_id") long answerId

@Produces JSON

long answerld

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 lets the observer add comments to answer.

@PathVariable(value = "answer id") long answerld,

@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

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

Return list of stages with:

long trialld

String name

LocalDateTime simulationTime

18. POST api/stages/admin/addNewTrialStage

Api let us add a stage to the chosen trial.

@RequestBody(

long id

long trialld

String name)

Return response with http request status and in body are:

Long trialld

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 trialld

Long id

String name

LocalDateTime simulationTime:

List<AdminObservationTypeDTO.ListItem> questions = new ArrayList<>()

20. DELETE api/stages/admin/deleteTrialStage

Api deletes 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 trialld

String name

Return

long id

long trialld

String name

22. GET /api/role

Api shows all roles in the chosen trial.

Return list of roles with:

long id

String name

String roleType

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

Api shows data about the chosen trial session.

@PathVariable(value = "trialsession id") long answerld

Return json with:

long trialld

String trialName

String trialDescription

String lastTrialStage

24. GET /api/trialsessions

Api shows a list of trial sessions.

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

Return list of trials with:

long trialld

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 trialld

String trialName

String trialDescription

String lastTrialStage

long initld

Boolean initHasAnswer

String name

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

Api let us change the status of the 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 the trial will be changed 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 trialld;

Long lastTrialStageId;

LocalDateTime startTime;

LocalDateTime pausedTime;

29. POST /api/trialsessionscreateNewSessionFile

Api lets administrators create new session users and create files 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, whose current user is a session manager.

Return Map(Id : Long, name : String)

31. POST /api/trialsessionsnewSessionValues

Api returns data about the trial.

@RequestParam(value = "trial_id") long trialld

Return trial node, in trial node we can find
trialStages, trialRoles, authUsers

32. POST /api/trialsession/admin/addNewUserRoleSession

Api lets us add a user to the role in the trial's session.

@RequestBody

long trialUserId

long trialRoleId

long trialSessionId

Return adminUserRoleDTO

33. DELETE /admin/deleteUserRoleSession

Api lets us delete users from the 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.Schemaltem>

List<Long> answersId
String name
String description
long id

List<TrialRoleDTO.ListItem> roles

JsonNode jsonSchema, where jsonSchema is a schema of all questions in the 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 trialld

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 the 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 the 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 the actual version of the application.

Return String

44. 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 the 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 the 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 the 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

48. /api/user

Api let user see a list of users in trial session.

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

Return DTO with

long id;

String login;

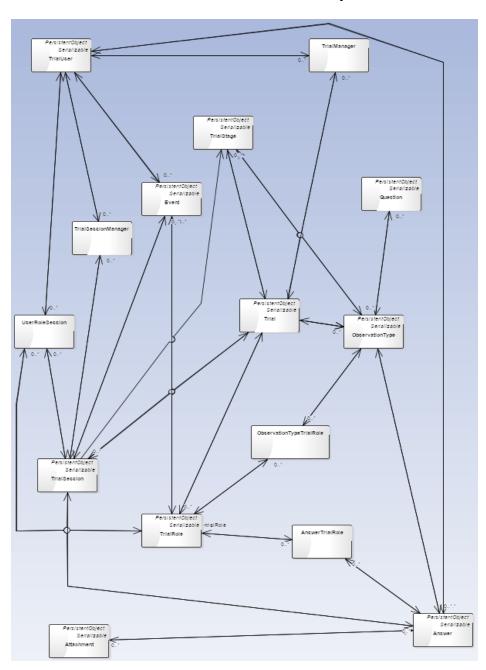
49. /api/user/version

Api returns version

Return application version

Database

This database schema is used in OST system.



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Figure 17. Schema of database

In this model ObservationType=Question Set.

Environmental variable

Table 1 Table of example environmental variables.

Type of environmental variable	Example Value	
DRIVER_IS_TESTBED_ON	false	
OST_DB_HOST	127.0.0.1	
OST_DB_PORT	8080	
OST_DB_NAME	ost	
OST_DB_USER	ost_user	
OST_DB_USER_PASS	ost_user_pass	