Actions create_event(activity, place, duration)
create_meeting(duration)
create_random_event(when) find_place(activity, person)
go_home(activity, duration)

actions : NoneType places : 1 policy set_options(options) set_people(people) set_places(places) set_policy(policy) set_schedule(schedule)

set_virus(virus)

set_actions(actions)

Creator

create_actions

create_events(

create_options

create_places()

create_virus()

create_people

Database

Engine

EventGenerator

EventModel

· I duration(now)

event : NoneType header : list store : dic person_frame get_data()
get_header() status : NoneType set(key, value, d assign_event(event) process() save_person_frame() update_risk(risk)

Person

current process : NoneType

event : NoneType last_updated num_people : PersonFrame people : list place_frame propagation_mode times : dict add_person(person) next() people_attending() remove_person(person save_place_frame()
update_air()

air_quality: int

Place

header : list store : dict

PlaceFrame get_data()
get_header()
set(key, value, digit

test_default()

PropagationModel infection_prob(RNA_50_perc_infection_prob) mkdir()
mkpath()
open_people()
open_places()
save_config(conf risk_one_person(infection_probability, dosis_infectious, susceptible_people) rna cont(aerosol_conc, rna_in_aerosol) rna in aerosol(respiratory fluid RNA conc, mean wet aerosol diameter)

Results log_name : s people_file people_name : places_name : add_person(person add_place(place)

setup_log()