

Karting report

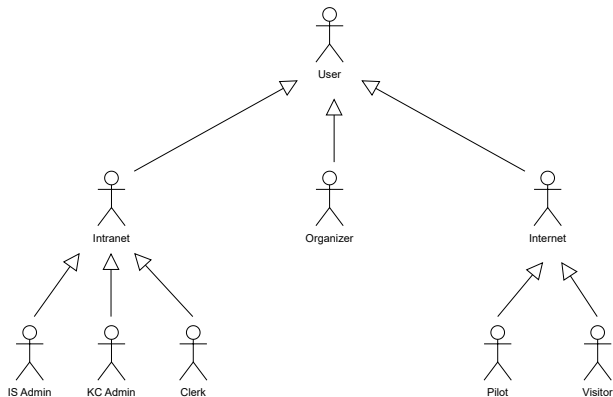
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February 2, 2024



This web information systems allows different actors to cooperate to give a wonderful experience to all go-karting lovers. The visitor will be able to explore our different tracks: longer and shorter, indoor and outdoor, asphalt and resin... which will be your favourite? Come to visit our go-karting centers to find out. You will need to register before his first race, then

User groups



Specification sheet

| | |
|--------------|--|
| Group name | User |
| Description | Empty |
| Profile data | None |
| Supergroup | None |
| Subgroups | None |
| Use cases | <ul style="list-style-type: none">- Explore karting centers by city- Explore karting centers by number of races- Explore karting centers by number of pilots- Explore karting centers by number of events- Explore karting centers by average review score- View all karting centers hosting upcoming events- Read details on karting center- Read reviews on karting center- Explore tracks in a karting center- Explore events by karting center- Explore tracks by asphalt type- Explore tracks by difficulty- Explore tracks by length- Explore tracks by city- Explore tracks by number of races- Explore tracks by number of pilots- Explore tracks by number of events- Explore tracks by average review score |

| | |
|-----------|---|
| Use cases | <ul style="list-style-type: none"> - Read details on track - Read reviews on track - Explore events by track - Explore leaderboards - Explore races from track - Explore lap-times of a race - Explore pilots from track - Read details on pilot - Explore events from pilot - Explore races from pilot - Explore events by city - Explore events by average review score - Explore events by price - Explore events by category - Explore events by popularity - Explore upcoming events - Explore controversial events - Read details on event - Explore karting centers by event - Explore tracks by event - Explore pilots from event - Explore races from event - Read reviews on event |
| Read | Karting center, Track (and Popular track) and implicitly Timetable, Race, Pilot, Event (and its subentities), Review on karting center, Review on track, Review on event, Leaderboard, Lap-time, City, Go-kart model, Track asphalt type, Track length range, Review score range, N. pilots range, N. races range, N. events range, Price range, Event category. |
| Write | None |

Specification sheet

| | |
|--------------|---|
| Group name | Intranet |
| Description | Empty |
| Profile data | None |
| Supergroup | User |
| Subgroups | Information System Administrator, Karting center administrator, Clerk |
| Use cases | - Login/Logout - Read my details |
| Read | Everything the generic user can read |
| Write | None |

Specification sheet

| | |
|--------------|--|
| Group name | Information System Administrator |
| Description | Empty |
| Profile data | Username, Password, Email, Name, Surname, Address |
| Supergroup | Intranet |
| Subgroups | None |
| Use cases | <ul style="list-style-type: none">- Explore karting center administrators- Read details on karting center administrator- U.D. karting center administrator- Create karting center administrator- Explore karting centers- Read details on karting center- U.D. karting center- Create karting center- Explore organizers- Read details on organizer- U.D. organizer- Create organizer- C.R.U.D. cities- C.R.U.D. go-kart models- C.R.U.D. track asphalt types- C.R.U.D. track difficulties- C.R.U.D. track length ranges- C.R.U.D. review score ranges- C.R.U.D. n. pilots ranges- C.R.U.D. n. races ranges- C.R.U.D. n. events ranges- C.R.U.D. price ranges- C.R.U.D. event categories |

| | |
|-------|---|
| Read | Everything |
| Write | Karting center, Karting center administrator, Organizer, City, Go-kart model, Track asphalt type, Track length range, Review score range, N. pilots range, N. races range, N. events range, Price range, Event category, everything that every karting center administrator can write (thus, also everything that every clerk can write) and everything that every organizer can write. |

Specification sheet

| | |
|--------------|---|
| Group name | Karting center administrator |
| Description | Empty |
| Profile data | Username, Password, Email, Name, Surname, Address |
| Supergroup | Intranet |
| Subgroups | None |
| Use cases | <ul style="list-style-type: none">- Explore my karting centers- Explore pilots by karting center- Explore pilots- Read details on pilot- U.D. pilot- Create pilot- Explore clerks by karting center- Explore clerks- Read details on clerk- U.D. clerk- Create clerk- Explore tracks (related to my karting centers)- Explore tracks by karting center- Read details on track- U.D. track- Create track- Explore races (related to my karting centers)- Read details on race- U.D. race- Create race- Explore go-karts dedicated to tracks of my karting centers- U.D. go-kart dedicated to track- Create go-kart |

| | |
|-------|--|
| Read | Clerks (related to my karting centers), go-karts (related to my karting centers), everything that every clerk of my karting centers can read, everything that the generic user can read. |
| Write | Karting center (only mine, only to update, not to create nor delete), Clerk (only mine), Track (only mine), Race (only for my karting centers) and implicitly Reservation, Go-kart (only for my karting centers), everything that every clerk of my karting centers can write. |

Specification sheet

| | |
|----------------------------|---|
| Group name | Clerk |
| Description | Empty |
| Profile data Supergroup | Username, Password, Email, Name, Surname, Address Intranet |
| Subgroups | None |
| Use cases | <ul style="list-style-type: none">- Explore reservations (related to my karting center)- Confirm reservation- Explore reviews on my karting center- Read review on karting center- Delete review on karting center- Explore reviews on the tracks of my karting center- Read review on track- Delete review on track- Explore reviews on events (that involved my karting center)- Read review on event- Delete review on event |
| Read | Reservation (only for my karting centers), everything that the generic user can read. |
| Write | Review on Karting center (only mine, only deleting), Review on Track (only of mine karting center, only deleting), Review on Event (only involving my karting center, only deleting), Reservation (only for my karting centers, only to confirm). Indirectly: Karting center, Track, Event (when deleting a review, implicitly some of their attributes are altered, e.g. <i>avgReviewScore</i> , <i>nReviews</i>). |

Specification sheet

| | |
|--------------|--|
| Group name | Organizer |
| Description | Empty |
| Profile data | Username, Password, Email, Name, Surname, Address |
| Supergroup | User |
| Subgroups | None |
| Use cases | <ul style="list-style-type: none">- Explore my events- Read details on my event- U.D. events- Create event- Explore not yet confirmed applications- Confirm application- Explore races of the event- Read details on race- U.D. race- Create race |
| Read | Application (only to my events), everything that the generic user can read. |
| Write | Event (C.R.U.D. only mine), Race (C.R.U.D. only for my events) and implicitly Reservation, Application (only to my events, only to confirm). Indirectly: Karting center, Track, Pilot (when organizing events, implicitly some of their attributes are altered, e.g. <i>nRaces</i> , <i>nEvents</i>). |

Specification sheet

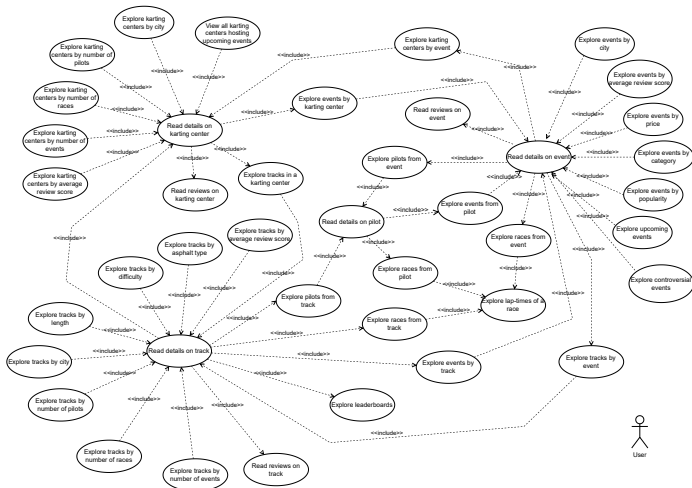
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|--------------|--------------------------------------|
| Group name | Internet |
| Description | Empty |
| Profile data | None |
| Supergroup | User |
| Subgroups | Pilot, Visitor |
| Use cases | None |
| Read | Everything the generic user can read |
| Write | None |

Specification sheet

| | |
|----------------------------|--|
| Group name | Pilot |
| Description | Empty |
| Profile data Supergroup | Username, Password, Email, Name, Surname, Address Internet |
| Subgroups | None |
| Use cases | <ul style="list-style-type: none">- Login/Logout- Read my details- Explore not yet confirmed reservations- C.U.D. races and reservations - Explore confirmed reservations- Explore my past races- Read details on race- Create review of karting center- Create review of track- Explore upcoming events applied to but not confirmed yet- Explore upcoming events not applied to- Explore my past events- Apply to an event- Read details on event- Create review of event |
| Read | <p>Reservation (only mine), everything that the generic user can read, Race (those that still have to take place, created by me) and implicitly Review, Application (only mine).</p> <p>Race (only mine) and implicitly Reservation, Review on karting center, Review on track, Review on event, Application (only mine).</p> <p>Indirectly: Karting center, Track, Event (when participating to a race or writing a review, implicitly some of their attributes are altered, e.g. <i>nPilots</i>, <i>nRaces</i>, <i>avgReviewScore</i>).</p> |
| Write | |

Specification sheet

| | |
|--------------|--------------------------------------|
| Group name | Visitor |
| Description | Empty |
| Profile data | None |
| Supergroup | Internet |
| Subgroups | None |
| Use cases | - Register |
| Read | Everything the generic user can read |
| Write | None |



| | |
|---------------|---|
| Title | Explore karting centers by city |
| Goal | The user explores karting centers selecting one city at a time. |
| Precondition | The user is in the area (of the public view) dedicated to karting centers. |
| Postcondition | The user obtains the list of karting centers from which he can move on. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to karting centers.- The user selects a city. |

Specification sheet

| | |
|---------------|---|
| Title | Explore karting centers by number of races |
| Goal | The user explores karting centers selecting one range of number of races (that were hosted on any of the tracks of the karting center) at a time. |
| Precondition | The user is in the area (of the public view) dedicated to karting centers. |
| Postcondition | The user obtains the list of karting centers from which he can move on. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to karting centers.- The user selects a range of number of races. |

Specification sheet

| | |
|---------------|--|
| Title | Explore karting centers by number of pilots |
| Goal | The user explores karting centers selecting one range of number of pilots (who had a race on any of the tracks of the karting center) at a time. |
| Precondition | The user is in the area (of the public view) dedicated to karting centers. |
| Postcondition | The user obtains the list of karting centers from which he can move on. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to karting centers.- The user selects a range of number of pilots. |

Specification sheet

| | |
|---------------|---|
| Title | Explore karting centers by number of events |
| Goal | The user explores karting centers selecting one range of number of events (that had at least one race hosted on any of the tracks of the karting center) at a time. |
| Precondition | The user is in the area (of the public view) dedicated to karting centers. |
| Postcondition | The user obtains the list of karting centers from which he can move on. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to karting centers.- The user selects a range of number of events. |

| | |
|---------------|---|
| Title | Explore karting centers by average review score |
| Goal | The user explores karting centers selecting one range of average review scores (given to the karting center by all the pilots that had at least one race on one of the tracks of the karting center) at a time. |
| Precondition | The user is in the area (of the public view) dedicated to karting centers. |
| Postcondition | The user obtains the list of karting centers from which he can move on. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to karting centers.- The user selects a range of scores (the ranges are the same for karting centres, tracks and events). |

| | |
|---------------|--|
| Title | View all karting centers hosting upcoming events |
| Goal | The user scrolls through the list of karting centers that are going to host an upcoming event. |
| Precondition | The user already has this information in the homepage. |
| Postcondition | The user obtains the list of karting centers from which he can move on. |
| Workflow | - The user reaches the homepage. |

| | |
|---------------|---|
| Title | Read details on karting center |
| Goal | The user chooses one karting center to focus on and reads its details. |
| Precondition | The user chose a karting center from a list of karting centers (obtained from any of the previous use cases). |
| Postcondition | The user obtains the details on the karting center and can move on to other related informations (e.g. tracks, reviews) |
| Workflow | - The user chooses one karting center from a list. |

Specification sheet

| | |
|---------------|--|
| Title | Read reviews on karting center |
| Goal | The user chooses one karting center to focus on and scrolls the reviews it received (from pilots that had at least one race on one track of the karting center). |
| Precondition | The user chose a karting center from a list of karting centers (obtained from any of the previous use cases). |
| Postcondition | The user obtains the reviews on the karting center in the area dedicated to reviews. |
| Workflow | - The user moves from the page dedicated to the details of the karting center to the page dedicated to reviews through a click. |

Specification sheet

| | |
|---------------|--|
| Title | Explore tracks in a karting center |
| Goal | The user chooses one karting center to focus on and explores the tracks it offers. |
| Precondition | The user chose a karting center from a list of karting centers (obtained from any of the previous use cases). |
| Postcondition | The user obtains the tracks offered by the karting center in the area dedicated to tracks. |
| Workflow | - The user moves from the page dedicated to the details of the karting center to the page dedicated to tracks through a click. |

| | |
|---------------|---|
| Title | Explore events by karting center |
| Goal | The user chooses one karting center to focus on and explores the events that had at least one of their races hosted by a track of the karting center. |
| Precondition | The user chose a karting center from a list of karting centers (obtained from any of the previous use cases). |
| Postcondition | The user obtains the events in the area dedicated to events. |
| Workflow | - The user moves from the page dedicated to the details of the karting center to the page dedicated to events through a click. |

Specification sheet

| | |
|---------------|---|
| Title | Explore tracks by asphalt type |
| Goal | The user explores tracks selecting one asphalt type at a time. |
| Precondition | The user is in the area (of the public view) dedicated to tracks. |
| Postcondition | The user obtains the list of tracks from which he can move on. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to tracks.- The user selects an asphalt type. |

Specification sheet

| | |
|---------------|--|
| Title | Explore tracks by difficulty |
| Goal | The user explores tracks selecting one difficulty at a time. |
| Precondition | The user is in the area (of the public view) dedicated to tracks. |
| Postcondition | The user obtains the list of tracks from which he can move on. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to tracks.- The user selects a difficulty. |

Specification sheet

| | |
|---------------|--|
| Title | Explore tracks by length |
| Goal | The user explores tracks selecting one range of lengths at a time. |
| Precondition | The user is in the area (of the public view) dedicated to tracks. |
| Postcondition | The user obtains the list of tracks from which he can move on. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to tracks.- The user selects a range of lengths. |

Specification sheet

| | |
|---------------|--|
| Title | Explore tracks by city |
| Goal | The user explores tracks selecting one city at a time. |
| Precondition | The user is in the area (of the public view) dedicated to tracks. |
| Postcondition | The user obtains the list of tracks from which he can move on. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to tracks.- The user selects a city. |

Specification sheet

| | |
|---------------|--|
| Title | Explore tracks by number of races |
| Goal | The user explores tracks selecting one range of number of races (that took place on the track) at a time. |
| Precondition | The user is in the area (of the public view) dedicated to tracks. |
| Postcondition | The user obtains the list of tracks from which he can move on. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to tracks.- The user selects a range of number of races. |

Specification sheet

| | |
|---------------|---|
| Title | Explore tracks by number of pilots |
| Goal | The user explores tracks selecting one range of number of pilots (who had a race on the track) at a time. |
| Precondition | The user is in the area (of the public view) dedicated to tracks. |
| Postcondition | The user obtains the list of tracks from which he can move on. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to tracks.- The user selects a range of number of pilots. |

Specification sheet

| | |
|---------------|---|
| Title | Explore tracks by number of events |
| Goal | The user explores tracks selecting one range of number of events (that had at least one race hosted on the track) at a time. |
| Precondition | The user is in the area (of the public view) dedicated to tracks. |
| Postcondition | The user obtains the list of tracks from which he can move on. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to tracks.- The user selects a range of number of events. |

| | |
|---------------|--|
| Title | Explore tracks by average review score |
| Goal | The user explores tracks selecting one range of average review scores (given to the track by all the pilots that had at least one race on the track) at a time. |
| Precondition | The user is in the area (of the public view) dedicated to tracks. |
| Postcondition | The user obtains the list of tracks from which he can move on. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to tracks.- The user selects a range of scores (the ranges are the same for karting centres, tracks and events). |

Specification sheet

| | |
|---------------|---|
| Title | Read details on track |
| Goal | The user chooses one track to focus on and reads its details. |
| Precondition | The user chose a track from a list of tracks (obtained from any of the previous use cases). |
| Postcondition | The user obtains the details on the track and can move on to other related informations (e.g. pilots, leaderboards, races, reviews) |
| Workflow | - The user chooses one karting center from a list. |

Specification sheet

| | |
|---------------|--|
| Title | Read reviews on track |
| Goal | The user chooses one track to focus on and scrolls the reviews it received (from pilots that had at least one race on it). |
| Precondition | The user chose a track from a list of tracks (obtained from any of the previous use cases). |
| Postcondition | The user obtains the reviews on the tracks in the area dedicated to reviews. |
| Workflow | - The user moves from the area dedicated to the details of the track to the area dedicated to reviews through a click. |

| | |
|---------------|--|
| Title | Explore events by track |
| Goal | The user chooses one track to focus on and explores the events that had at least one of their races hosted by the track. |
| Precondition | The user chose a track from a list of tracks (obtained from any of the previous use cases). |
| Postcondition | The user obtains the events in the area dedicated to events. |
| Workflow | - The user moves from the area dedicated to the details of the track to the area dedicated to events through a click. |

| | |
|---------------|--|
| Title | Explore leaderboards |
| Goal | The user chooses one track to focus on and explores the leaderboards associated to the track (leaderboards are filtering on the whole record of laptimes obtained by pilots in a race, a leaderboard can focus on the last month, the last year, sex, weight...) |
| Precondition | The user chose a track from a list of tracks (obtained from any of the previous use cases). |
| Postcondition | The user obtains the list of leaderboards in the area dedicated to leaderboards. |
| Workflow | - The user moves from the area dedicated to the details of the track to the area dedicated to leaderboards through a click. |

| | |
|---------------|--|
| Title | Explore races from track |
| Goal | The user chooses one track to focus on and explores the races that took place on the track. |
| Precondition | The user chose a track from a list of tracks (obtained from any of the previous use cases). |
| Postcondition | The user obtains the list of races in the area dedicated to races. |
| Workflow | - The user moves from the area dedicated to the details of the track to the area dedicated to races through a click. |

Specification sheet

| | |
|---------------|---|
| Title | Explore lap-times of a race |
| Goal | The user chooses one race to focus on and reads all the lap-times made by all the pilots that participated to the race. |
| Precondition | The user chose a race from a list of races (obtained from a track, an event or a pilot). |
| Postcondition | The user obtains the list of lap-times in the area dedicated to lap-times. |
| Workflow | - The user moves from the area dedicated to the details of the race to the area dedicated to lap-times through a click. |

| | |
|---------------|---|
| Title | Explore pilots from track |
| Goal | The user chooses one track to focus on and explores the pilots that had at least one race on the track. |
| Precondition | The user chose a track from a list of tracks (obtained from any of the previous use cases). |
| Postcondition | The user obtains the list of pilots in the area dedicated to pilots. |
| Workflow | - The user moves from the area dedicated to the details of the track to the area dedicated to pilots through a click. |

Specification sheet

| | |
|---------------|---|
| Title | Read details on pilot |
| Goal | The user chooses one pilot to focus on and reads its details. |
| Precondition | The user chose a pilot from a list of pilots (obtained from a track, a race, an event). |
| Postcondition | The user obtains the details on the pilot and can move on to other related informations (e.g. races, events). |
| Workflow | - The user chooses one pilot from a list. |

| | |
|---------------|---|
| Title | Explore events from pilot |
| Goal | The user chooses one pilot to focus on and explores the events that the pilot attended. |
| Precondition | The user chose a pilot from a list of pilots (obtained from a track, a race, an event). |
| Postcondition | The user obtains a list of events in the area dedicated to events. |
| Workflow | - The user moves from the area dedicated to the details of the pilot to the area dedicated to events through a click. |

| | |
|---------------|--|
| Title | Explore races from pilot |
| Goal | The user chooses one pilot to focus on and explores the races that the pilot had. |
| Precondition | The user chose a pilot from a list of pilots (obtained from a track, a race, an event). |
| Postcondition | The user obtains a list of races in the area dedicated to races. |
| Workflow | - The user moves from the area dedicated to the details of the pilot to the area dedicated to races through a click. |

Specification sheet

| | |
|---------------|--|
| Title | Explore events by city |
| Goal | The user explores events selecting one city at a time. |
| Precondition | The user is in the area (of the public view) dedicated to events. |
| Postcondition | The user obtains the list of events from which he can move on. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to events.- The user selects a city. |

Specification sheet

| | |
|---------------|--|
| Title | Explore events by average review score |
| Goal | The user explores events selecting one range of average review scores (given to the event by all the pilots that participated to it) at a time. |
| Precondition | The user is in the area (of the public view) dedicated to events. |
| Postcondition | The user obtains the list of events from which he can move on. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to events.- The user selects a range of scores (the ranges are the same for karting centres, tracks and events). |

Specification sheet

| | |
|---------------|---|
| Title | Explore events by price |
| Goal | The user explores events selecting one range of prices at a time. |
| Precondition | The user is in the area (of the public view) dedicated to events. |
| Postcondition | The user obtains the list of events from which he can move on. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to events.- The user selects a range of prices. |

Specification sheet

| | |
|---------------|--|
| Title | Explore events by category |
| Goal | The user explores events selecting one category at a time. |
| Precondition | The user is in the area (of the public view) dedicated to events. |
| Postcondition | The user obtains the list of events from which he can move on. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to events.- The user selects a category. |

| | |
|---------------|---|
| Title | Explore events by popularity |
| Goal | The user explores only the events considered popular (those that have at least N participants and at least M reviews) |
| Precondition | The user is in the area (of the public view) dedicated to events. |
| Postcondition | The user obtains the list of events from which he can move on. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to events.- The user chooses an event from the list of popular events already provided in the area dedicated to events. |

| | |
|---------------|--|
| Title | Explore upcoming events |
| Goal | The user explores only the upcoming events (those whose first race still has to take place). |
| Precondition | The user is in the area (of the public view) dedicated to events or in the homepage (which already shows the list of upcoming events, the list of tracks that will be involved and the list of karting centers that will be involved). |
| Postcondition | The user obtains the list of events from which he can move on. |
| Workflow | <ul style="list-style-type: none">- A: the user chooses an event from the list of upcoming events already provided in the homepage.- B.1: the user moves to the area dedicated to events.- B.2: the user chooses an event from the list of upcoming events already provided in the area dedicated to events. |

| | |
|---------------|---|
| Title | Explore controversial events |
| Goal | The user explores only the controversial events (those that have at least N reviews under 25% of the maximum score and at least M reviews over 75% of the maximum score). |
| Precondition | The user is in the area (of the public view) dedicated to events. |
| Postcondition | The user obtains the list of events from which he can move on. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to events.- The user chooses an event from the list of controversial events already provided in the area dedicated to events. |

Specification sheet

| | |
|---------------|--|
| Title | Read details on event |
| Goal | The user chooses one event to focus on and reads its details. |
| Precondition | The user chose an event from a list of events (obtained from any of the previous use cases). |
| Postcondition | The user obtains the details on the event and can move on to other related informations (e.g. races, pilots) |
| Workflow | - The user chooses one event from a list. |

| | |
|---------------|--|
| Title | Explore karting centers by event |
| Goal | The user chooses one event to focus on and explores the karting centers that hosted at least one race of the event. |
| Precondition | The user chose an event from a list of events (obtained from any of the previous use cases). |
| Postcondition | The user obtains the list of karting centers in the area dedicated to karting centers. |
| Workflow | - The user moves from the area dedicated to the details of the event to the area dedicated to karting centers through a click. |

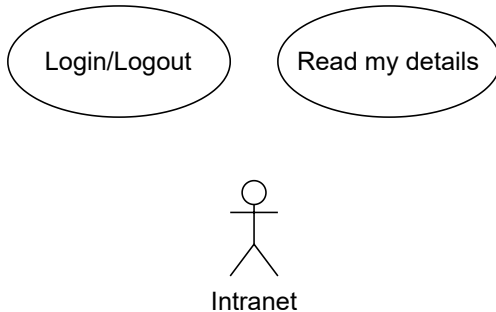
| | |
|---------------|---|
| Title | Explore tracks by event |
| Goal | The user chooses one event to focus on and explores the tracks that hosted at least one race of the event. |
| Precondition | The user chose an event from a list of events (obtained from any of the previous use cases). |
| Postcondition | The user obtains the list of tracks in the area dedicated to tracks. |
| Workflow | - The user moves from the area dedicated to the details of the event to the area dedicated to tracks through a click. |

| | |
|---------------|---|
| Title | Explore pilots from event |
| Goal | The user chooses one event to focus on and explores the pilots that participated to the event. |
| Precondition | The user chose an event from a list of events (obtained from any of the previous use cases). |
| Postcondition | The user obtains a list of pilots in the area dedicated to pilots. |
| Workflow | - The user moves from the area dedicated to the details of the event to the area dedicated to pilots through a click. |

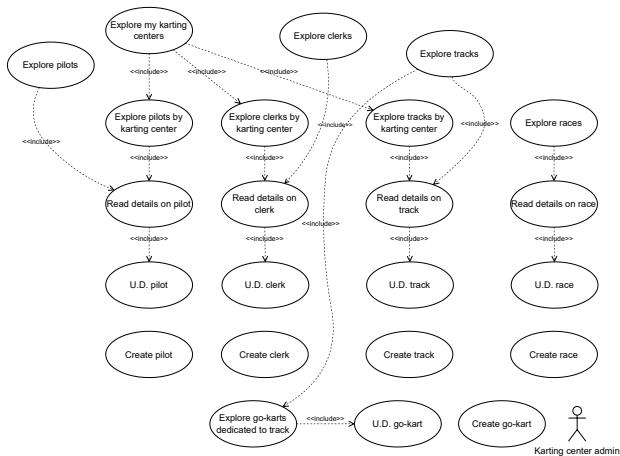
| | |
|---------------|--|
| Title | Explore races from event |
| Goal | The user chooses one event to focus on and explores the races that the event organized. |
| Precondition | The user chose an event from a list of events (obtained from any of the previous use cases). |
| Postcondition | The user obtains a list of races in the area dedicated to races. |
| Workflow | - The user moves from the area dedicated to the details of the event to the area dedicated to races through a click. |

Specification sheet

| | |
|---------------|--|
| Title | Read reviews on event |
| Goal | The user chooses one event to focus on and scrolls the reviews it received (from pilots that participated to the event). |
| Precondition | The user chose an event from a list of events (obtained from any of the previous use cases). |
| Postcondition | The user obtains the reviews on the event in the area dedicated to reviews. |
| Workflow | - The user moves from the area dedicated to the details of the event to the area dedicated to reviews through a click. |



Karting center administrator



| | |
|---------------|--|
| Title | Explore my karting centers |
| Goal | The user explores the karting centers he manages. |
| Precondition | The user logged in and manages at least one karting center. |
| Postcondition | The user obtains the list of karting centers he manages. |
| Workflow | <ul style="list-style-type: none">- A: the user already has a list of karting centers he manages in the homepage.- B: the user moves to the area dedicated to karting centers and the list is already provided. |

Specification sheet

| | |
|---------------|---|
| Title | Explore pilots by karting center |
| Goal | The user explores the pilots that participated in at least one race on a track of a karting center the user manages. |
| Precondition | The user logged in, manages at least one karting center and at least one pilot had a race on a track of the karting center. |
| Postcondition | The user obtains the list of pilots in the area dedicated to pilots. |
| Workflow | - The user chooses the option to explore pilots of a karting center from the list (provided in the homepage) of karting centers he manages. |

| | |
|---------------|--|
| Title | Explore pilots |
| Goal | The user explores all the pilots that were registered in any karting center by any karting center administrator. |
| Precondition | The user logged in. |
| Postcondition | The user obtains the list of pilots in the area dedicated to pilots. |
| Workflow | - The user moves to the area dedicated to pilots (the list is already provided). |

Specification sheet

| | |
|---------------|---|
| Title | Read details on pilot |
| Goal | The user chooses one pilot to focus on and reads its details. |
| Precondition | The user chose a pilot from a list of pilots (obtained from the homepage, from the area dedicated to pilots or from the area dedicated to races). |
| Postcondition | The user obtains the details on the pilot (in the area dedicated to pilots). |
| Workflow | - The user chooses one pilot from a list (from the homepage, the area dedicated to pilots or the area dedicated to races). |

| | |
|---------------|---|
| Title | U.D. pilots |
| Goal | The user updates or deletes a pilot. |
| Precondition | The user logged in. |
| Postcondition | The chosen pilot is updated or deleted. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to pilots.- The user chooses the option to update or delete a pilot from the list of all pilots (provided in the area dedicated to pilots). |

| | |
|---------------|--|
| Title | Create pilots |
| Goal | The user creates a new pilot. |
| Precondition | The user logged in. |
| Postcondition | The pilot is created. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to pilots.- The user chooses the option to create a new pilot. |

Specification sheet

| | |
|---------------|---|
| Title | Explore clerks by karting center |
| Goal | The user explores the clerks that work in a karting center the user manages. |
| Precondition | The user logged in, manages at least one karting center and at least one clerk works in the karting center. |
| Postcondition | The user obtains the list of clerks in the area dedicated to clerks. |
| Workflow | - The user chooses the option to explore clerks of a karting center (among the list of karting centers displayed in the homepage) he manages. |

| | |
|---|---|
| Title | Explore tracks by karting center |
| Goal, Precondition, Postcondition, Workflow | Similar to the use case Explore clerks by karting center . The user explores the tracks that are part of a karting center the user manages. It is of course possible for a karting center administrator to explore all the tracks of all the karting centers the same way is for a visitor, but the site view dedicated to the karting center administrator focuses on showing him custom informations. This is not true for the access of the karting center administrator to clerks, he cannot even read informations about clerks from other karting centers, not in his dedicated site view, neither in the visitor's site view. |

Specification sheet

| | |
|---------------|---|
| Title | Explore clerks |
| Goal | The user explores all the clerks that were registered in any karting center the user manages. |
| Precondition | The user logged in, manages at least one karting center and at least one clerk works in the karting center. |
| Postcondition | The user obtains the list of clerks in the area dedicated to clerks. |
| Workflow | - The user moves to the area dedicated to clerks (the list is already provided). Note: a karting center admin can see all the pilots (also from other karting centers) in the area dedicated to pilots but can only see the clerks of the karting centers he manages in the area dedicated to clerks. |

| | |
|---|---|
| Title | Explore tracks |
| Goal, Precondition, Postcondition, Workflow | Similar to the use case Explore clerks . |

| | |
|---|---|
| Title | Explore races |
| Goal, Precondition, Postcondition, Workflow | Similar to the use case Explore clerks . The user explores all the races that were hosted on any of the tracks in any of the karting centers he manages. |

Specification sheet

| | |
|---------------|---|
| Title | Read details on clerk |
| Goal | The user chooses one clerk to focus on and reads its details. |
| Precondition | The user chose a clerk from a list of clerks (obtained from the homepage, from the area dedicated to clerks.) |
| Postcondition | The user obtains the details on the clerk (in the area dedicated to clerks). |
| Workflow | - The user chooses one clerk from a list (from the homepage or the area dedicated to clerks). |

| | |
|---|--|
| Title | Read details on track |
| Goal, Precondition, Postcondition, Workflow | Similar to the use case Read details on clerk . |

| | |
|---|--|
| Title | Read details on race |
| Goal, Precondition, Postcondition, Workflow | Similar to the use case Read details on clerk . |

Specification sheet

| | |
|---------------|--|
| Title | U.D. clerks |
| Goal | The user updates or deletes a clerk. |
| Precondition | The user logged in. |
| Postcondition | The chosen clerk is updated or deleted. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to clerks.- The user chooses the option to update or delete a clerk from the list of all clerks (provided in the area dedicated to clerks). The user can only update or delete clerks that work for a karting center he manages. |

| | |
|---|---|
| Title | U.D. tracks |
| Goal, Precondition, Postcondition, Workflow | Similar to the use case U.D. clerks . The user can update or delete only tracks of karting centers he manages. |

| | |
|---|---|
| Title | U.D. races |
| Goal, Precondition, Postcondition, Workflow | Similar to the use case U.D. races . The user can update or delete races that took place or are going to take place on a track of a karting center he manages; when he does, the list of reservations on the same track associated to the race being updated/deleted is shown. |

Specification sheet

| | |
|---------------|--|
| Title | Create clerks |
| Goal | The user creates a new clerk. |
| Precondition | The user logged in. |
| Postcondition | The clerk is created. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to clerks.- The user chooses the option to create a new clerk tht will be visible only to him. |

| | |
|---|--|
| Title | Create tracks |
| Goal, Precondition, Postcondition, Workflow | Similar to the use case Create clerks . The track created will be visible to everybody. |

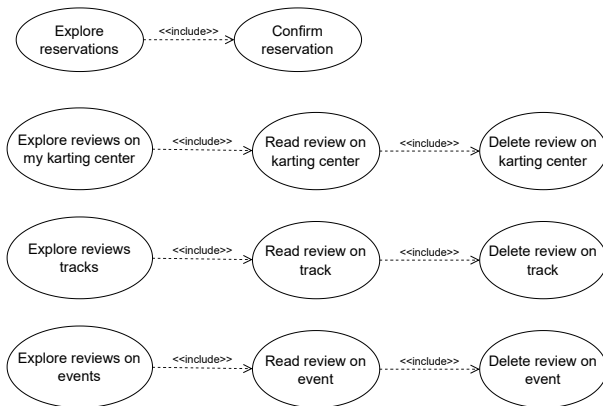
| | |
|---|--|
| Title | Create races |
| Goal, Precondition, Postcondition, Workflow | Similar to the use case Create clerks . When the race is created, an associated reservation (weak entity) is created as well and all the clerks working for the karting center that hosts the new race will be able to confirm it. The reservation stores the information of the pilot or the organizer that created the race, in this case a fictitious organizer that is created apriori is used. |

| | |
|---------------|---|
| Title | Explore go-karts dedicated to track (TODO) |
| Goal | The user explores the go-karts that are dedicated to a track. |
| Precondition | The user logged in, manages at least one karting center that has at least one track that has at least one go-kart dedicated to it. |
| Postcondition | The user obtains the list of go-karts in the area dedicated to go-karts. |
| Workflow | <ul style="list-style-type: none">- A: the user chooses a track from the list of tracks (provided in the homepage) of the karting centers he manages.- B: the user moves to the area dedicated to tracks and chooses a track from the list of tracks (provided in the area dedicated to tracks) of the karting centers he manages.- The user chooses the option to explore go-karts dedicated to the track. |

| | |
|---------------|--|
| Title | U.D. go-karts (TODO) |
| Goal | The user updates or deletes a go-kart. |
| Precondition | The user logged in and manages at least one karting center that has at least one track that has at least one go-kart dedicated to it. |
| Postcondition | The chosen go-kart is updated or deleted. |
| Workflow | <ul style="list-style-type: none">- A: the user chooses a track from the list of tracks (provided in the homepage) of the karting centers he manages.- B: the user moves to the area dedicated to tracks and chooses a track from the list of tracks (provided in the area dedicated to tracks) of the karting centers he manages.- The user chooses the option to update or delete a go-kart from the list of go-karts provided in the same page with the details on the track. |

Specification sheet

| | |
|---------------|--|
| Title | Create go-karts (TODO) |
| Goal | The user creates a new go-kart. |
| Precondition | The user logged in and manages at least one karting center that has at least one track. |
| Postcondition | The go-kart is created. |
| Workflow | <ul style="list-style-type: none">- A: the user chooses a track from the list of tracks (provided in the homepage) of the karting centers he manages.- B: the user moves to the area dedicated to tracks and chooses a track from the list of tracks (provided in the area dedicated to tracks) of the karting centers he manages.- The user chooses the option to create a new go-kart dedicated to the track from the same page with the details on the track. |



| | |
|---------------|--|
| Title | Explore reservations |
| Goal | The user explores the reservations asked by pilots on any track of the karting center the user works for (a clerk can work on one karting center at a time.) |
| Precondition | The user logged in and works for a karting center that received at least a request for reservation on a track. |
| Postcondition | The user obtains the list of reservations in the area dedicated to reservations. |
| Workflow | - The user moves to the area dedicated to reservations (a list of the reservations grouped by track is provided). |

Specification sheet

| | |
|---------------|---|
| Title | Confirm reservation |
| Goal | The user confirms a reservation. |
| Precondition | The user logged in and works for a karting center that received at least a request for reservation on a track. |
| Postcondition | The reservation is confirmed (it now has both a pilot/organizer and a clerk associated to it). |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to reservations.- The user chooses the option to confirm a reservation from the list of reservations. |

Specification sheet

| | |
|---------------|--|
| Title | Explore reviews on my karting center |
| Goal | The user explores the reviews that were written on the karting center the user works for. |
| Precondition | The user logged in and works for a karting center that received at least one review. |
| Postcondition | The user obtains the list of reviews on the karting centers. |
| Workflow | - The user already has a list of reviews on the karting center he works for in the homepage. |

| | |
|---------------|--|
| Title | Explore reviews on tracks |
| Goal | The user explores the reviews that were written on tracks of the karting center the user works for. |
| Precondition | The user logged in and works for a karting center that received at least one review on a specific track. |
| Postcondition | The user obtains the list of reviews on the tracks. |
| Workflow | - The user already has a list of reviews on the karting center he works for in the homepage. |

| | |
|---------------|--|
| Title | Explore reviews on events |
| Goal | The user explores the reviews that were written on events that hosted at least one race on a track of the karting center the user works for. |
| Precondition | The user logged in and works for a karting center that hosted at least one race of an event that received at least one review. |
| Postcondition | The user obtains the list of reviews on the events. |
| Workflow | - The user already has a list of reviews on the karting center he works for in the homepage. |

Specification sheet

| | |
|---------------|---|
| Title | Read review on karting center |
| Goal | The user chooses one review to focus on and reads its details. |
| Precondition | The user logged in and chose a review from the list of reviews on the karting center. |
| Postcondition | The user obtains reads the review and can decide to delete it. |
| Workflow | - The user chooses one review from the list of reviews on the karting center (from the homepage). |

| | |
|---|--|
| Title | Read review on track |
| Goal, Precondition, Postcondition, Workflow | Similar to the use case Read review on karting center . |

| | |
|---|--|
| Title | Read review on event |
| Goal, Precondition, Postcondition, Workflow | Similar to the use case Read review on karting center . |

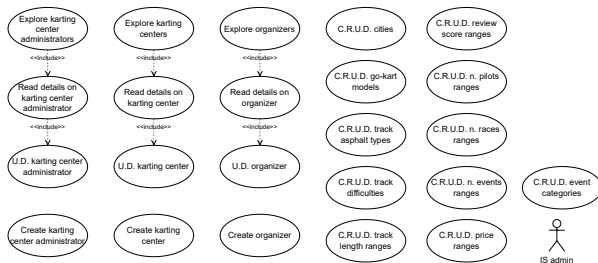
Specification sheet

| | |
|---------------|---|
| Title | Delete review on karting center |
| Goal | The user deletes a review on the karting center. |
| Precondition | The user logged in and chose a review from the list of reviews on the karting center. |
| Postcondition | The user deletes the review. |
| Workflow | <ul style="list-style-type: none">- The user chooses one review from the list of reviews on the karting center (from the homepage).- The user chooses the option to delete the review. |

| | |
|---|--|
| Title | Delete review on track |
| Goal, Precondition, Postcondition, Workflow | Similar to the use case Delete review on karting center . |

| | |
|---|--|
| Title | Delete review on event |
| Goal, Precondition, Postcondition, Workflow | Similar to the use case Delete review on karting center . |

Information system administrator



Specification sheet

| | |
|---------------|---|
| Title | Explore karting center administrators |
| Goal | The user explores the karting center administrators |
| Precondition | The user logged in and has already created at least a karting center administrator. |
| Postcondition | The user obtains the list of karting center administrators. |
| Workflow | - The user moves to the area dedicated to karting center administrators. |

| | |
|---|--|
| Title | Explore karting centers |
| Goal, Precondition, Postcondition, Workflow | Similar to the use case Explore karting center administrators . |

| | |
|---|--|
| Title | Explore organizers |
| Goal, Precondition, Postcondition, Workflow | Similar to the use case Explore karting center administrators . |

Specification sheet

| | |
|---------------|--|
| Title | Read details on karting center administrator |
| Goal | The user chooses one karting center administrator to focus on and reads its details. |
| Precondition | The user logged in and has already created at least a karting center administrator. |
| Postcondition | The user obtains the details on the karting center administrator. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to karting center administrators.- The user chooses one karting center administrator from the list of karting center administrators. |

| | |
|---|---|
| Title | Read details on karting center |
| Goal, Precondition, Postcondition, Workflow | Similar to the use case Read details on karting center administrator . |

| | |
|---|---|
| Title | Read details on organizer |
| Goal, Precondition, Postcondition, Workflow | Similar to the use case Read details on karting center administrator . |

Specification sheet

| | |
|---------------|--|
| Title | U.D. karting center administrator |
| Goal | The user updates or deletes a karting center administrator. |
| Precondition | The user logged in and has already created at least a karting center administrator. |
| Postcondition | The chosen karting center administrator is updated or deleted. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to karting center administrators.- The user chooses one karting center administrator from the list of karting center administrators.- The user chooses the option to update or delete the karting center administrator. |

| | |
|---|--|
| Title | U.D. karting center |
| Goal, Precondition, Postcondition, Workflow | Similar to the use case U.D. karting center administrator . |

| | |
|---|--|
| Title | U.D. organizer |
| Goal, Precondition, Postcondition, Workflow | Similar to the use case U.D. karting center administrator . |

Specification sheet

| | |
|---------------|--|
| Title | Create karting center administrator |
| Goal | The user creates a new karting center administrator. |
| Precondition | The user logged in. |
| Postcondition | The karting center administrator is created. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to karting center administrators.- The user chooses the option to create a new karting center administrator. |

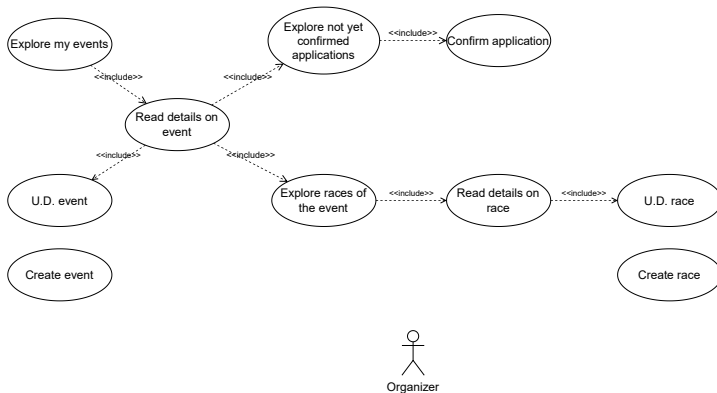
| | |
|---|--|
| Title | Create karting center |
| Goal, Precondition, Postcondition, Workflow | Similar to the use case Create karting center administrator . |

| | |
|---|--|
| Title | Create organizer |
| Goal, Precondition, Postcondition, Workflow | Similar to the use case Create karting center administrator . |

The information system administrator is responsible for the management of all those entities useful to the visitors to navigate the site. He has the possibility to create, update and delete the following entities:

- City
- Go-kart model
- Track asphalt type
- Track difficulty
- Track length range
- Review score range
- Number of pilots range
- Number of races range
- Number of events range
- Price range
- Event category

Organizer



| | |
|---------------|---|
| Title | Explore my events |
| Goal | The user explores the events he created. |
| Precondition | The user logged in and created at least one event. |
| Postcondition | The user obtains the list of events he created. |
| Workflow | <ul style="list-style-type: none">- A: the user already has a list of events he created and the applications received for each event in the homepage.- B: the user moves to the area dedicated to events and the list is already provided. |

Specification sheet

| | |
|---------------|--|
| Title | Read details on my event |
| Goal | The user chooses one event to focus on and reads its details. |
| Precondition | The user logged in. |
| Postcondition | The user obtains the details on the event and can move on to other related informations (e.g. applications). |
| Workflow | <ul style="list-style-type: none">- A: the user chooses one event from the list of events he created in the homepage.- B.1: the user moves to the area dedicated to events.- B.2: the user chooses one event from the list of events he created in the area dedicated to events. |

| | |
|---------------|---|
| Title | U.D. events |
| Goal | The user updates or deletes an event he created. |
| Precondition | The user logged in and he created at least one event. |
| Postcondition | The event is updated or deleted, the modifications might affect the races created for the track and the participations of the pilots to the races of the event but the applications made by pilots are not affected. |
| Workflow | <ul style="list-style-type: none">- A: the user chooses one event from the list of events he created in the homepage.- B.1: the user moves to the area dedicated to events.- B.2: the user chooses one event from the list of events he created in the area dedicated to events.- The user chooses the option to update or delete the event. |

Specification sheet

| | |
|---------------|--|
| Title | Create event |
| Goal | The user creates a new event. |
| Precondition | The user logged in and created at least one race. |
| Postcondition | The event is created and pilots can apply to it. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to events.- The user chooses the option to create a new event (he will need to choose among races he created to fill the event). |

Specification sheet

| | |
|---------------|--|
| Title | Explore not yet confirmed applications |
| Goal | The user explores the applications received for his events that he did not confirm yet. |
| Precondition | The user logged in, created at least one event and at least one pilot applied to it. |
| Postcondition | The user obtains the list of applications that he did not confirm yet. |
| Workflow | <ul style="list-style-type: none">- A: the user chooses one event from the list of events he created in the homepage.- B.1: the user moves to the area dedicated to events.- B.2: the user chooses one event from the list of events he created in the area dedicated to events. (- The list of applications not yet confirmed is already provided.) |

Specification sheet

| | |
|---------------|--|
| Title | Confirm application |
| Goal | The user confirms an application received for one of his events. |
| Precondition | The user logged in, created at least one event and at least one pilot applied to it. |
| Postcondition | The application is confirmed and the pilot is automatically inserted as a participant to all of the races of the event (this might change, e.g. in case the organizer decides to organize races in a tournament fashion, but the application will not be affected). |
| Workflow | <ul style="list-style-type: none">- A: the user chooses one event from the list of events he created in the homepage.- B.1: the user moves to the area dedicated to events.- B.2: the user chooses one event from the list of events he created in the area dedicated to events.- The user chooses the option to accept an application from the list of applications not yet confirmed. |

| | |
|---------------|---|
| Title | Explore races of the event |
| Precondition | The user logged in, created at least one event and the event has at least one race. |
| Postcondition | The user obtains the list of races of a specific event. |
| Workflow | <ul style="list-style-type: none">- A: the user chooses one event from the list of events he created in the homepage.- B.1: the user moves to the area dedicated to events.- B.2: the user chooses one event from the list of events he created in the area dedicated to events.(- The list of races of the chosen event is already provided.) |

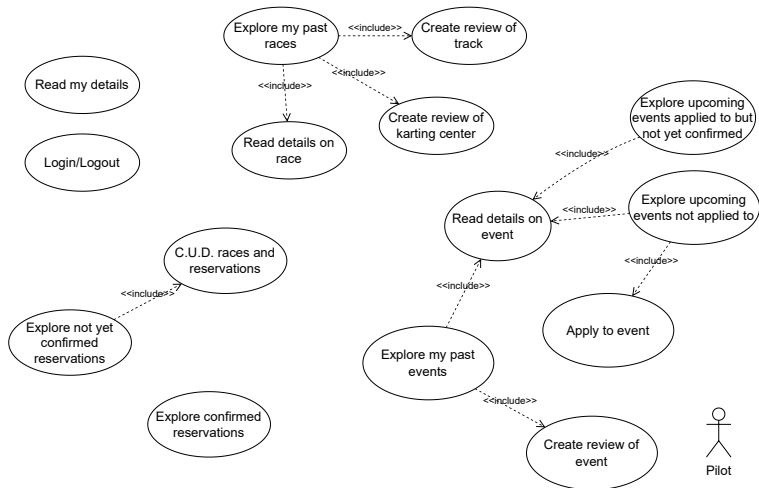
| | |
|---------------|--|
| Title | Read details on race |
| Precondition | The user logged in, created at least one event and the event has at least one race. |
| Postcondition | The user obtains the details on the race and can move on (e.g. updating or deleting it.) |
| Workflow | <ul style="list-style-type: none">- A: the user chooses one event from the list of events he created in the homepage.- B.1: the user moves to the area dedicated to events.- B.2: the user chooses one event from the list of events he created in the area dedicated to events.- The user chooses one race from the list of races of the chosen event. |

Specification sheet

| | |
|---------------|--|
| Title | U.D. race |
| Precondition | The user logged in, created at least one event and the event has at least one race. |
| Postcondition | The race gets updated or deleted, this affects the relations with the pilots (<i>participation</i>) but not the application of the pilots to the event. |
| Workflow | <ul style="list-style-type: none">- A: the user chooses one event from the list of events he created in the homepage.- B.1: the user moves to the area dedicated to events.- B.2: the user chooses one event from the list of events he created in the area dedicated to events.- The user chooses one race from the list of races of the chosen event.- The user chooses the option to update or delete the race. |

Specification sheet

| | |
|---------------|---|
| Title | Create race |
| Precondition | The user logged in. |
| Postcondition | A new race is available to the user to be added to an event. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to events.- The user chooses the option to create a new race. |



| | |
|---------------|--|
| Title | Read my details |
| Goal | The user reads its own personal informations, already available in the homepage. |
| Precondition | The user logged in. |
| Postcondition | The user obtains its personal informations. |
| Workflow | - The user logs in and reads the informations already present in the homepage. |

| | |
|---------------|--|
| Title | Explore not yet confirmed reservations |
| Goal | The user explores the reservations he made that are not yet confirmed by any clerk |
| Precondition | The user logged in. |
| Postcondition | The user obtains the list of reservations that are not yet confirmed by any clerk. |
| Workflow | - The user moves to the area dedicated to reservations and the list is already provided. |

Specification sheet

| | |
|---------------|---|
| Title | C.U.D. races and reservations |
| Goal | The user asks for a reservation to have a race on a track of a karting center. |
| Precondition | The user logged in. |
| Postcondition | A race and its relative reservation (a weak entity of the race) are created, updated or deleted. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to reservations.- A: the user selects a reservation from those not yet confirmed and updates it or deletes it.- B: the user creates a new reservation without the need to select one from those not yet confirmed. <p>Note: the existence of the reservation is hidden to the user when he creates/updates/deletes the race, the reservation just takes some of the attributes of the race (Date, Start, End) and is shared with the clerks of the karting center, who can confirm it or not. The user can only see the reservations that are confirmed or not, he does not edit them directly but only through the actions on the race.</p> |

| | |
|---------------|--|
| Title | Explore confirmed reservations |
| Goal | The user explores the reservations he made that are confirmed by a clerk |
| Precondition | The user logged in. |
| Postcondition | The user obtains the list of reservations that are confirmed by a clerk. |
| Workflow | - The user moves to the area dedicated to reservations and the list is already provided. |

Specification sheet

| | |
|---------------|---|
| Title | Explore my past races |
| Goal | The user explores the races he had in the past (not the races he booked through the previous use case). |
| Precondition | The user logged in. |
| Postcondition | The user obtains the list of past races. |
| Workflow | - The user moves to the area dedicated to races and the list is already provided. |

Specification sheet

| | |
|---------------|---|
| Title | Read details on race |
| Goal | The user chooses one race to focus on and reads its details. |
| Precondition | The user logged in. |
| Postcondition | The user obtains the details on the race and related informations such as the best lap-time of that race (it could be from the user himself or another pilot). |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to races.- The user chooses one race from the list of past races. |

Specification sheet

| | |
|---------------|--|
| Title | Create review of karting center |
| Goal | The user creates a review of a karting center. |
| Precondition | The user logged in and had at least one race that will allow him to write reviews for the track and the karting center that hosted that race. |
| Postcondition | The review is stored and a clerk of the karting center will be able to read it and remove it if it is considered inappropriate. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to reviews.- From the list of past races, the user selects the option to write a review of the karting center that hosted the chosen race from the list.- The user chooses a score, writes the review and submits it. |

| | |
|---|--|
| Title | Create review of track |
| Goal, precondition, postcondition, workflow | Equivalent to the previous use case, but the review is of a track. |

| | |
|---------------|---|
| Title | Explore upcoming events applied to but not confirmed yet |
| Goal | The user explores the events that he applied to and that have not been confirmed by an organizer yet. |
| Precondition | The user logged in. |
| Postcondition | The user obtains the list of events that he applied to and that have not been confirmed yet. |
| Workflow | - The user moves to the area dedicated to events and the list is already provided. |

Specification sheet

| | |
|---------------|--|
| Title | Explore upcoming events not applied to |
| Goal | The user explores the upcoming events that he did not apply to. |
| Precondition | The user logged in. |
| Postcondition | The user obtains the list of upcoming events that he did not apply to. |
| Workflow | - The user moves to the area dedicated to events and the list is already provided. |

Specification sheet

| | |
|---------------|---|
| Title | Explore my past events |
| Goal | The user explores the events that he attended in the past. |
| Precondition | The user logged in and attended at least one event in the past. |
| Postcondition | The user obtains the list of events that he attended in the past. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to events.- The user selects the option to explore the events that he attended in the past. |

| | |
|---------------|--|
| Title | Apply to an event |
| Goal | The user applies to an event. |
| Precondition | The user logged in and he has not already applied to the event. |
| Postcondition | The user applies to the event and the organizer will be able to see and confirm the application. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to events.- The user selects one event from the list of upcoming events that he did not apply to.- The user applies to the event. |

| | |
|---------------|---|
| Title | Read details on event |
| Goal | The user chooses one event to focus on and reads its details. |
| Precondition | The user logged in. |
| Postcondition | The user obtains the details on the event. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to events.- A: the user chooses one event from the list of upcoming events (both applied to and not applied to).- B.1: the user chooses the option to explore the events that he attended in the past.- B.2: the user chooses one event from the list of past events. |

Specification sheet

| | |
|---------------|---|
| Title | Create review of event |
| Goal | The user creates a review of an event he has attended in the past. |
| Precondition | The user logged in and attended at least one event in the past. |
| Postcondition | The review is stored and the organizer of the event and the clerks of all the karting centers that hosted at least one race of the event will be able to read it, clerks will be able to remove it if it is considered inappropriate. |
| Workflow | <ul style="list-style-type: none">- The user moves to the area dedicated to events.- The user chooses the option to explore the events that he attended in the past.- The user selects the option to write a review from one of the events in the list.- The user chooses a score, writes the review and submits it. |



Visitor

| | |
|---------------------|---|
| Name | KartingCenter |
| Synonym | Go-karting center |
| Description | Karting center |
| Example of instance | Name: Mantova Karting Center City: Mantova nPilots: 5937 nRaces: 12485 nEvents:74 avgReviewScore: 3.9 |
| Properties | Name: the name of the karting center City: the city where the karting center is located nPilots: the number of pilots that have raced in the karting center nRaces: the number of races that took place in the karting center nEvents: the number of events that had at least one race hosted by the karting center avgReviewScore: the average score of the reviews of the karting center |
| Components | KartingCenterReview |

| | |
|---------------|--|
| Relations | <p>KartingCenter.City (N:1): the city where the karting center is located</p> <p>KartingCenter.KartingCenterAdmin (N:1): the karting center administrator of the karting center</p> <p>KartingCenter.Clerk (1:N): the clerks of the karting center</p> <p>KartingCenter.KartingCenterReview (1:N): the reviews of the karting center</p> <p>KartingCenter.Track (1:N): the tracks of the karting center</p> <p><i>KartingCenter.NPilotsRange</i> (N:1) the range within the number of pilots that have raced in the karting center falls</p> <p><i>KartingCenter.NRacesRange</i> (N:1) the range within the number of races that took place in the karting center falls</p> <p><i>KartingCenter.NEventsRange</i> (N:1) the range within the number of events that took place in the karting center falls</p> <p><i>KartingCenter.ReviewScoreRange</i> (N:1) the range within the average score of the reviews of the karting center falls</p> <p><i>KartingCenter.Event</i> (N:N) the events the karting center hosted</p> |
| Superconcepts | None |
| Subconcepts | None |

| | |
|---------------------|--|
| Name | City |
| Synonym | None |
| Description | City |
| Example of instance | Name: Mantova |
| Properties | Name: the name of the city |
| Components | None |
| Relations | <i>City_KartingCenter</i> (1:N): the karting centers located in the city <i>City_Track</i> (1:N): the tracks (inside a karting center) located in the city <i>City_Event</i> (N:N): the events that had at least one race on a track of a karting center located in the city |
| Superconcepts | None |
| Subconcepts | None |

| | |
|---------------------|--|
| Name | Track |
| Synonym | Circuit |
| Description | Track |
| Example of instance | <p>Name: T1 Length: 700m City: Mantova AsphaltType: resin nRentalGoKarts: 23 Difficulty: Intermediate nPilots: 3873 nRaces: 7437 nEvents: 43 avgReviewScore: 4.2</p> |
| Properties | <p>Name: the name of the track Length: the length of the track City: the city where the karting center the track belongs to is located AsphaltType: the type of asphalt of the track nRentalGoKarts: the number of rental go-karts available in the track Difficulty: the difficulty of the track nPilots: the number of pilots that have raced on the track nRaces: the number of races that took place on the track nEvents: the number of events that had at least one race on the track avgReviewScore: the average score of the reviews of the track</p> |
| Components | Timetable, Leaderboard, TrackReview |

| | |
|---------------|--|
| Relations | <p>Track.KartingCenter (N:1): the karting center the track belongs to</p> <p>Track.TrackReview (1:N): the reviews of the track</p> <p>Track.Timetable (1:1): the timetable of the track</p> <p>Track.Leaderboard (1:N): the leaderboards of the track</p> <p>Track.Race (1:N): the races that took place on the track</p> <p>Track.GoKart (1:N): the go-karts dedicated to the track</p> <p>Track.GoKartModel (N:N): the go-kart models allowed on the track</p> <p>Track.TrackAshpalt (N:1): the asphalt of the track</p> <p>Track.TrackDifficulty (N:1): the difficulty of the track</p> <p>Track.Pilot (N:N): the pilots that have the track as one of their favourite</p> <p>Track.City (N:1): the city where the karting center the track belongs to is located</p> <p>Track.TrackLengthRange (N:1): the range within the length of the track falls</p> <p>Track.NPilotsRange (N:1): the range within the number of pilots that have raced on the track falls</p> <p>Track.NRacesRange (N:1): the range within the number of races that took place on the track falls</p> <p>Track.NEventsRange (N:1): the range within the number of events that took place on the track falls</p> <p>Track.ReviewScoreRange (N:1): the range within the average score of the reviews of the track falls</p> |
| Superconcepts | None |
| Subconcepts | PopularTrack: a track that is recurrent in the list of favourite tracks of pilots |

| | |
|---------------------|---|
| Name | Go-kart |
| Synonym | Kart |
| Description | Go-kart |
| Example of instance | Name: T1.1 GoKartModel: Sodi RX7 |
| Properties | Name: the name of the go-kart <i>GoKartModel</i> : the model of the go-kart |
| Components | None |
| Relations | GoKart.Track (N:1): the track the go-kart is dedicated to GoKart.GoKartModel (N:1): the model of the go-kart |
| Superconcepts | None |
| Subconcepts | None |

| | |
|---------------------|---|
| Name | Timetable |
| Synonym | None |
| Description | Timetable |
| Example of instance | <i>TrackName</i> : T1 |
| Properties | <i>TrackName</i> : the name of the track |
| Components | None |
| Relations | Timetable_Track (1:1): the track the timetable belongs to Timetable_Reservation (1:N): the reservations of the timetable |
| Superconcepts | None |
| Subconcepts | None |

| | |
|---------------------|---|
| Name | Leaderboard |
| Synonym | Ranking |
| Description | Leaderboard |
| Example of instance | Title: Best of the week <i>TrackName</i> : T1 |
| Properties | Title: the title of the leaderboard <i>TrackName</i> : the name of the track |
| Components | None |
| Relations | Leaderboard.Track (N:1): the track each leaderboard belongs to Leaderboard.LapTime (N:N): the lap times the leaderboard focuses on |
| Superconcepts | None |
| Subconcepts | None |

Data dictionary

| | |
|---------------------|---|
| Name | Race |
| Synonym | None |
| Description | Race |
| Example of instance | ID: 2036 Date: 2024-02-15 Start: 15:00 End: 15:09 ForEvent: false <i>GoKartingCenterName</i> : Mantova Karting Center <i>TrackName</i> : T1 <i>nParticipants</i> : 8 <i>fastestLapTime</i> : 00:00:48.595 |
| Properties | ID Date Start End ForEvent: whether the race was created by an organizer for an event or not <i>GoKartingCenterName</i> <i>TrackName</i> : the name of the track that hosts the race <i>nParticipants</i> <i>fastestLapTime</i> |
| Components | Reservation |

| | |
|---------------|---|
| Relations | <p>Race_Track (N:1): the track the race has been raced on</p> <p>Race_Reservation (1:1): the reservation that has been made for the race</p> <p>Race_Pilot (N:N): the pilots that participated in the race</p> <p>Race_LapTime (1:N): every lap-time of every pilot that participated in the race</p> <p>Race_Event (N:1): the event the race is part of</p> <p>Race_Pilot (1:N): the pilots who have this race as their last race</p> <p>Race_Laptime (1:1): the best lap-time of the race</p> |
| Superconcepts | None |
| Subconcepts | None |

| | |
|---------------------|---|
| Name | Reservation |
| Synonym | Booking |
| Description | Reservation |
| Example of instance | Date: 2024-02-15 Start: 15:00 End: 15:09 <i>ReservedByPilot</i> : denisfesta <i>ReservedByOrganizer</i> : None <i>ConfirmedByClerk</i> : Jessica |
| Properties | Date Start End <i>ReservedByPilot</i> : the pilot who made the reservation (this property is mutually exclusive with <i>ReservedByOrganizer</i>) <i>ReservedByOrganizer</i> : the organizer who made the reservation (this property is mutually exclusive with <i>ReservedByPilot</i>) <i>ConfirmedByClerk</i> : the clerk who confirmed the reservation |
| Components | None |
| Relations | Reservation_Timetable (N:1): the timetable where the reservation is stored Reservation_Pilot (N:1): the pilot who made the reservation Reservation_Organizer (N:1): the organizer who made the reservation Reservation_Clerk (N:1): the clerk who confirmed the reservation Reservation_Race (1:1): the race this reservation has been made for |
| Superconcepts | None |
| Subconcepts | None |

| | |
|---------------------|---|
| Name | Lap-time |
| Synonym | Lap |
| Description | Lap-time |
| Example of instance | LapNumber: 7 LapTime: 00:00:48.595 |
| Properties | LapNumber: the <i>LapNumber</i> -th lap LapTime: the time measured for the <i>LapNumber</i> -th lap for a particular pilot |
| Components | None |
| Relations | LapTime.Pilot (N:1): the pilot who made the lap-time LapTime.Race (N:1): the race where the lap-time has been made <i>LapTime.Race</i> (1:1): in case the lap-time is the best of a race <i>LapTime.Leadersboard</i> (N:N): the leaderboards where the lap-time is displayed |
| Superconcepts | None |
| Subconcepts | None |

| | |
|---------------------|--|
| Name | Application |
| Synonym | Request |
| Description | Application |
| Example of instance | Confirmed: true <i>EventName</i> : Mantova Karting Cup 2024 <i>RequestFromPilot</i> : denisfesta |
| Properties | Confirmed: whether the application has been confirmed or not (the organizer who created the event is the only one who can accept an application) <i>EventName</i> : the name of the event the application has been made for <i>RequestFromPilot</i> : the pilot who made the application |
| Components | None |
| Relations | Application.Pilot (N:1): the pilot who made the application Application.Event (N:1): the event the application has been made for |
| Superconcepts | None |
| Subconcepts | None |

| | |
|---------------------|---|
| Name | Event |
| Synonym | Tournament |
| Description | Event |
| Example of instance | Name: Mantova Karting Cup 2024 Price: 100 <i>FirstDate</i> : 2024-02-15 <i>OrganizerName</i> : WD40 <i>EventCategory</i> : Open <i>nParticipants</i> : 64 <i>nRaces</i> : 12 <i>nReviews</i> : 23 <i>avgReviewScore</i> : 4.5 |
| Properties | Name: the name of the event Price: the price of the event <i>FirstDate</i> : the date of the first race of the event <i>OrganizerName</i> : the username of the organizer who created the event <i>EventCategory</i> : the category of the event (<i>open</i> , <i>intermediate</i> , <i>pro</i>) <i>nParticipants</i> : the number of pilots who applied for the event and whose application was confirmed <i>nRaces</i> : the number of races of the event <i>nReviews</i> : the number of written reviews about the event <i>avgReviewScore</i> : the average score of the reviews about the event |
| Components | EventReview |

| | |
|---------------|---|
| Relations | <p>Event_Organizer (N:1): the organizer who created the event</p> <p>Event_Application (1:N): the applications received for the event</p> <p>Event_Race (1:N): the races of the event</p> <p>Event_EventCategory (N:1): the category of the event</p> <p>Event_EventReview (1:N): the reviews about the event</p> <p>Event_ReviewScoreRange (N:1): the range within the average score of the reviews about the event falls</p> <p>Event_Pilot (N:N): the pilots who applied for the event and whose application was confirmed</p> <p>Event_PriceRange (N:1): the range within the price of the event falls</p> <p>Event_City (N:N): the cities where the races of the event took place</p> <p>Event_Track (N:N): the tracks that hosted the races of the event</p> <p>Event_KartingCenter (N:N): the karting centers whose tracks hosted the races of the event</p> |
| Superconcepts | None |
| Subconcepts | Controversial event, Popular event, Upcoming event |

Data dictionary

| | |
|---------------------|---|
| Name | Review |
| Synonym | Opinion |
| Description | Review |
| Example of instance | TextReview: Fantastic track, with a lot of bumps and holes. Score: 4/5 |
| Properties | TextReview: the text of the review Score: the score of the review |
| Components | None |
| Relations | None |
| Superconcepts | None |
| Subconcepts | KartingCenterReview, TrackReview, EventReview |

| | |
|---------------------|--|
| Name | KartingCenterReview |
| Synonym | None |
| Description | Karting center review |
| Example of instance | TextReview (inherited from Review): Very rude and violent staff, but nice tracks! Score (inherited from Review): 4/5 |
| Properties | None |
| Components | None |
| Relations | KartingCenterReview_KartingCenter (N:1): the karting center the review is about KartingCenterReview_Pilot (N:1): the pilot who wrote the review |
| Superconcepts | Review |
| Subconcepts | None |

| | |
|---------------------|--|
| Name | TrackReview |
| Synonym | None |
| Description | Track review |
| Example of instance | TextReview (inherited from Review): The track is very nice, but the asphalt is not in good conditions. Score (inherited from Review): 3/5 |
| Properties | None |
| Components | None |
| Relations | TrackReview_Track (N:1): the track the review is about TrackReview_Pilot (N:1): the pilot who wrote the review |
| Superconcepts | Review |
| Subconcepts | None |

| | |
|---------------------|--|
| Name | EventReview |
| Synonym | None |
| Description | Event review |
| Example of instance | TextReview (inherited from Review): The event was a mess, delayed a couple of times and some pilots were not correctly registered. Score (inherited from Review): 2/5 |
| Properties | None |
| Components | None |
| Relations | EventReview.Event (N:1): the event the review is about EventReview.Pilot (N:1): the pilot who wrote the review |
| Superconcepts | Review |
| Subconcepts | None |

Data dictionary

| | |
|---------------------|--|
| Name | User |
| Synonym | None |
| Description | User |
| Example of instance | Username: denisfesta Password: 12345asdf! Email: d.festa004@studenti.unibs.it Name: Denis Surname: Festa Address: Via Trento 5, Rovato (BS) |
| Properties | Username: the username of the user Password: the password of the user Email: the email address of the user Name: the name of the user Surname: the surname of the user Address: the address of the user |
| Components | None |
| Relations | None |
| Superconcepts | None |
| Subconcepts | Admin, KartingCenterAdmin, Clerk, Organizer, Pilot |

| | |
|---------------------|--|
| Name | Admin |
| Synonym | Administrator |
| Description | The administrator does not have any relation with other entities of the information system but is needed to create karting center administrators, organizers and all the auxiliary objects useful for the visitor to explore easily. |
| Example of instance | Empty (all the properties are inherited from User) |
| Properties | None |
| Components | None |
| Relations | None |
| Superconcepts | User |
| Subconcepts | None |

| | |
|---------------------|---|
| Name | KartingCenterAdmin |
| Synonym | None |
| Description | Karting center administrator |
| Example of instance | Empty (all the properties are inherited from User) |
| Properties | None |
| Components | None |
| Relations | KartingCenterAdmin_KartingCenter (1:N): the karting centers the administrator is in charge of |
| Superconcepts | User |
| Subconcepts | None |

| | |
|---------------------|--|
| Name | Clerk |
| Synonym | None |
| Description | Clerk |
| Example of instance | Empty (all the properties are inherited from User) |
| Properties | None |
| Components | None |
| Relations | Clerk_KartingCenter (N:1): the karting center the clerk works for Clerk_Reservation (1:N): the reservations the clerk confirmed |
| Superconcepts | User |
| Subconcepts | None |

| | |
|---------------------|--|
| Name | Organizer |
| Synonym | None |
| Description | Organizer |
| Example of instance | Empty (all the properties are inherited from User) |
| Properties | None |
| Components | None |
| Relations | Organizer_Event (1:N): the events the organizer created Organizer_Reservation (1:N): the reservations the organizer requested |
| Superconcepts | User |
| Subconcepts | None |

Data dictionary

| | |
|---------------------|--|
| Name | Pilot |
| Synonym | None |
| Description | Pilot |
| Example of instance | Username (inherited from User): denisfesta Password (inherited from User): 12345asdf! Email (inherited from User): d.festa004@studenti.unibs.it Name (inherited from User): Denis Surname (inherited from User): Festa Address (inherited from User): Via Trento 5, Rovato (BS) Age: 25 Weight: 70 |
| Properties | Age: the age of the pilot Weight: the weight of the pilot |
| Components | None |
| Relations | Pilot_KartingCenterReview (1:N): the reviews the pilot wrote about karting centers Pilot_TrackReview (1:N): the reviews the pilot wrote about tracks Pilot_EventReview (1:N): the reviews the pilot wrote about events Pilot_Application (1:N): the applications the pilot made Pilot_Reservation (1:N): the reservations the pilot made Pilot_Track (N:N): the tracks the pilot has as favorite Pilot_Race (N:N): the races the pilot participated in Pilot_LapTime (1:N): the lap-times the pilot made <i>Pilot_Race</i> (N:1): the last race the pilot participated in <i>Pilot_Event</i> (N:N): the events the pilot was accepted to participate in |
| Superconcepts | User |
| Subconcepts | None |

| | |
|---------------------|---|
| Name | ReviewScoreRange |
| Synonym | None |
| Description | Review score range |
| Example of instance | LowerBoundIncluded: 1 UpperBoundExcluded: 3 |
| Properties | LowerBoundIncluded: the lower bound of the range UpperBoundExcluded: the upper bound of the range |
| Components | None |
| Relations | ReviewScoreRange.KartingCenter (1:N): the karting centers whose average review score falls in the range ReviewScoreRange.Track (1:N): the tracks whose average review score falls in the range ReviewScoreRange.Event (1:N): the events whose average review score falls in the range |
| Superconcepts | None |
| Subconcepts | None |

| | |
|---------------------|---|
| Name | NPilotsRange |
| Synonym | None |
| Description | A range of number of pilots |
| Example of instance | LowerBoundIncluded: 0 UpperBoundExcluded: 100 |
| Properties | LowerBoundIncluded: the lower bound of the range UpperBoundExcluded: the upper bound of the range |
| Components | None |
| Relations | NPilotsRange_KartingCenter (1:N): the karting centers whose number of pilots falls in the range NPilotsRange_Track (1:N): the tracks whose number of pilots falls in the range |
| Superconcepts | None |
| Subconcepts | None |

| | |
|---------------------|---|
| Name | NRacesRange |
| Synonym | None |
| Description | A range of number of races |
| Example of instance | LowerBoundIncluded: 10000 UpperBoundExcluded: 20000 |
| Properties | LowerBoundIncluded: the lower bound of the range UpperBoundExcluded: the upper bound of the range |
| Components | None |
| Relations | NRacesRange.KartingCenter (1:N): the karting centers whose number of races (the sum of all the races on all the tracks of that karting center) falls in the range NRacesRange.Track (1:N): the tracks whose number of races that took place on them falls in the range |
| Superconcepts | None |
| Subconcepts | None |

| | |
|---------------------|--|
| Name | NEventsRange |
| Synonym | None |
| Description | A range of number of events |
| Example of instance | LowerBoundIncluded: 0 UpperBoundExcluded: 10 |
| Properties | LowerBoundIncluded: the lower bound of the range UpperBoundExcluded: the upper bound of the range |
| Components | None |
| Relations | NEventsRange_KartingCenter (1:N): the karting centers whose number of hosted events falls in the range NEventsRange_Track (1:N): the tracks whose number of events that took place on them falls in the range |
| Superconcepts | None |
| Subconcepts | None |

| | |
|---------------------|---|
| Name | GoKartModel |
| Synonym | None |
| Description | Go-kart model |
| Example of instance | GoKartModel: Sodi RX7 |
| Properties | GoKartModel: the name of the go-kart model |
| Components | None |
| Relations | GoKartModel_GoKart (1:N): the go-karts of that model GoKartModel_Track (N:N): the tracks where that model is available |
| Superconcepts | None |
| Subconcepts | None |

| | |
|---------------------|---|
| Name | TrackAsphalt |
| Synonym | None |
| Description | Track asphalt |
| Example of instance | TrackAsphalt: Asphalt |
| Properties | TrackAsphalt: the name of the track asphalt |
| Components | None |
| Relations | TrackAsphalt..Track (1:N): the tracks with that asphalt |
| Superconcepts | None |
| Subconcepts | None |

| | |
|---------------------|--|
| Name | TrackDifficulty |
| Synonym | None |
| Description | Track difficulty |
| Example of instance | TrackDifficulty: Intermediate |
| Properties | TrackDifficulty: the name of the track difficulty |
| Components | None |
| Relations | TrackDifficulty_Track (1:N): the tracks with that difficulty |
| Superconcepts | None |
| Subconcepts | None |

| | |
|---------------------|--|
| Name | TrackLengthRange |
| Synonym | None |
| Description | Track length range |
| Example of instance | LowerBoundIncluded: 0 UpperBoundExcluded: 300 |
| Properties | LowerBoundIncluded: the lower bound of the range UpperBoundExcluded: the upper bound of the range |
| Components | None |
| Relations | TrackLengthRange..Track (1:N): the tracks whose length falls in the range |
| Superconcepts | None |
| Subconcepts | None |

| | |
|---------------------|---|
| Name | PopularTrack |
| Synonym | None |
| Description | A popular track is a track that has been selected as favorite by at least N pilots. This subclass of Track is to be considered as a view of the database that invites the visitor during its navigation and at the same time speeds up the execution of the query. |
| Example of instance | Empty (all the properties are inherited from Track) |
| Properties | None |
| Components | None |
| Relations | None |
| Superconcepts | Track |
| Subconcepts | None |

| | |
|---------------------|---|
| Name | ControversialEvent |
| Synonym | None |
| Description | <p>A controversial event is an event that has received at least N reviews with a score lower than 25% of the maximum score and at least N reviews with a score higher than 75% of the maximum score.</p> <p>This subclass of Event is to be considered as a view of the database.</p> |
| Example of instance | Empty (all the properties are inherited from Event) |
| Properties | None |
| Components | None |
| Relations | None |
| Superconcepts | Event |
| Subconcepts | None |

| | |
|---------------------|--|
| Name | PopularEvent |
| Synonym | None |
| Description | A popular event is an event that already took place, to which at least N pilots participated and that received at least N reviews. This subclass of Event is to be considered as a view of the database. |
| Example of instance | Empty (all the properties are inherited from Event) |
| Properties | None |
| Components | None |
| Relations | None |
| Superconcepts | Event |
| Subconcepts | None |

| | |
|---------------------|---|
| Name | UpcomingEvent |
| Synonym | None |
| Description | An upcoming event is an event that has not yet taken place, its attribute <i>FirstDate</i> is in the future. This subclass of Event is to be considered as a view of the database. |
| Example of instance | Empty (all the properties are inherited from Event) |
| Properties | None |
| Components | None |
| Relations | None |
| Superconcepts | Event |
| Subconcepts | None |

| | |
|---------------------|--|
| Name | PriceRange |
| Synonym | None |
| Description | A range of price of the events |
| Example of instance | LowerBoundIncluded: 0 UpperBoundExcluded: 50 |
| Properties | LowerBoundIncluded: the lower bound of the range UpperBoundExcluded: the upper bound of the range |
| Components | None |
| Relations | PriceRange.Event (1:N): the events whose price falls in the range |
| Superconcepts | None |
| Subconcepts | None |

| | |
|---------------------|--|
| Name | EventCategory |
| Synonym | None |
| Description | The event can be open to every pilot (entry level difficulty), intermediate (for those pilots that feel more competitive) and pro (only pilots that show up at a high rank in the leaderboards can participate). |
| Example of instance | EventCategory: Open |
| Properties | EventCategory: the name of the event category |
| Components | None |
| Relations | EventCategory_Event (1:N): the events from that category |
| Superconcepts | None |
| Subconcepts | None |

| Site View | Public view | | |
|---------------|--|-------------------------------------|----------|
| Description | Empty | | |
| User Groups | Visitor, Pilot, Clerk, Organizer, Karting center administrator, Information system administrator | | |
| Use Cases | Register, Login, Explore karting centers by city, Explore karting centers by number of races, Explore karting centers by number of pilots, Explore karting centers by number of events, Explore karting centers by average review score, View all karting centers hosting upcoming events, Read details on karting center, Read reviews on karting center, Explore tracks in a karting center, Explore events by karting center, Explore tracks by asphalt type, Explore tracks by difficulty, Explore tracks by length, Explore tracks by city, Explore tracks by number of races, Explore tracks by number of pilots, Explore tracks by number of events, Explore tracks by average review score, Read details on track, Read reviews on track, Explore events by track, Explore leaderboards, Explore races from track, Explore lap-times of a race, Explore pilots from track, Read details on pilot, Explore events from pilot, Explore races from pilot, Explore events by city, Explore events by average review score, Explore events by price, Explore events by category, Explore events by popularity, Explore upcoming events, Explore controversial events, Read details on event, Explore karting centers by event, Explore tracks by event, Explore pilots from event, Explore races from event, Read reviews on event. | | |
| Site View Map | | | |
| Area Name | Area Description | Objects | Priority |
| Home | Empty | UpcomingEvent, Track, KartingCenter | High |

Site views

| | | | |
|---------------|-------|--|--------|
| KartingCenter | Empty | KartingCenter, City, NPilotsRange, NRacesRange, NEventsRange, ReviewScoreRange | High |
| Tracks | Empty | Track, TrackAsphalt, TrackDifficulty, TrackLengthRange, City, NPilotsRange, NRacesRange, NEventsRange, ReviewScoreRange, GoKartModel, PopularTrack | High |
| Event | Empty | Event, City, ReviewScoreRange, PriceRange, EventCategory, PopularEvent, ControversialEvent, UpcomingEvent | High |
| Race | Empty | Race | Medium |
| Pilot | Empty | Pilot | Medium |
| Laptime | Empty | LapTime | Low |
| Leaderboard | Empty | Leaderboard | Medium |
| Review | Empty | KartingCenterReview, TrackReview, EventReview | Medium |

| Site View | Pilot | | |
|---------------|---|--|----------|
| Description | Empty | | |
| User Groups | Pilot | | |
| Use Cases | Logout, Read my details, Explore not yet confirmed reservations, C.U.D. races and reservations, Explore confirmed reservations, Explore my past races, Read details on race, Create review of karting center, Create review of track, Explore upcoming events applied to but not confirmed yet, Explore upcoming events not applied to, Explore my past events, Apply to an event, Read details on event, Create review of event. | | |
| Site View Map | | | |
| Area Name | Area Description | Objects | Priority |
| Home | Empty | Pilot, Race, Event | High |
| Reservations | Empty | Race, Reservation | High |
| Race | Empty | Race, LapTime, KartingCenter, KartingCenterReview, Track, TrackReview (Pilot, Track, Timetable and KartingCenter when operating on Race) | High |
| Event | Empty | Event, EventReview, Application | High |

Site views

| Site View | Organizer | | |
|---------------|---|---|----------|
| Description | Empty | | |
| User Groups | Organizer, Information system administrator | | |
| Use Cases | Logout, Explore my events, Read details on my event, U.D. events, Create event, Explore not yet confirmed applications, Confirm application, Explore races of the event, Read details on race, U.D. race, Create race | | |
| Site View Map | | | |
| Area Name | Area Description | Objects | Priority |
| Home | Empty | Event, Application | High |
| Event | Empty | Event, Application, Race (EventCategory and Organizer when operating on Event, Pilot, Track, Timetable and Karting-Center when operating on Race) | High |

Site views

| Site View | Clerk | | |
|---------------|--|--|----------|
| Description | Empty | | |
| User Groups | Clerk, Information system administrator, Karting center administrator | | |
| Use Cases | Logout, Explore reservations, Confirm reservation, Explore reviews on karting center, Read review on karting center, Delete review on karting center, Explore reviews on track, Read review on track, Delete review on track, Explore reviews on event, Read review on event, Delete review on event | | |
| Site View Map | | | |
| Area Name | Area Description | Objects | Priority |
| Home | Empty | Clerk, KartingCenterReview, TrackReview, EventReview | High |
| Reservation | Empty | Track, Reservation (Timetable as the list of reservations) | High |
| Review | Empty | KartingCenterReview, TrackReview, EventReview, Pilot | High |

Site views

| Site View | Karting center administrator | | |
|---------------|---|--|----------|
| Description | Empty | | |
| User Groups | Karting center administrator, Information system administrator | | |
| Use Cases | Logout, Explore my karting centers, Explore pilots by karting center, Explore pilots, Read details on pilot, U.D. pilot, Create pilot, Explore clerks by karting center, Explore clerks, Read details on clerk, U.D. clerk, Create clerk, Explore tracks (related to my karting centers), Explore tracks by karting center, Read details on track, U.D. track, Create track, Explore races (related to my karting centers), Read details on race, U.D. race, Create race, Explore go-karts dedicated to tracks of my karting centers, U.D. go-kart dedicated to track, Create go-kart | | |
| Site View Map | | | |
| Area Name | Area Description | Objects | Priority |
| Home | Empty | KartingCenterAdministrator, KartingCenter, Pilot, Clerk, Track | High |
| KartingCenter | Empty | KartingCenter, City | High |
| Track | Empty | Track, (GoKartModel, TrackAsphalt and Track when operating on Track) | High |
| Race | Empty | Race, Reservation (Timetable as the list of reservations, Pilot, Track and KartingCenter when operating on Race) | High |
| Pilot | Empty | Pilot | High |
| Clerk | Empty | Clerk (Karting center when operating on Clerk) | High |

Site views

| Site View | Information system administrator | | |
|-------------------|--|--|----------|
| Description | Empty | | |
| User Groups | Information system administrator | | |
| Use Cases | Logout, Explore karting center administrators, Read details on karting center administrator, U.D. karting center administrator, Create karting center administrator, Explore karting centers, Read details on karting center, U.D. karting center, Create karting center, Explore organizers, Read details on organizer, U.D. organizer, Create organizer, C.R.U.D. cities, C.R.U.D. go-kart models, C.R.U.D. track asphalt types, C.R.U.D. track difficulties, C.R.U.D. track length ranges, C.R.U.D. review score ranges, C.R.U.D. n. pilots ranges, C.R.U.D. n. races ranges, C.R.U.D. n. events ranges, C.R.U.D. price ranges, C.R.U.D. event categories | | |
| Site View Map | | | |
| Area Name | Area Description | Objects | Priority |
| Home | Empty | Admin | High |
| K.C.Administrator | Empty | KartingCenterAdministrator (KartingCenter when operating on KartingCenterAdministrator) | High |
| KartingCenter | Empty | KartingCenter, (City and KartingCenterAdministrator when creating KartingCenter, KartingCenterReview deleted when deleting KartingCenter) | High |
| Organizer | Empty | Organizer | High |
| AuxiliaryEntity | Empty | City, GoKartModel, TrackAsphalt, TrackDifficulty, TrackLengthRange, ReviewScoreRange, NPilotsRange, NRacesRange, NEventsRange, PriceRange, EventCategory | Medium |