API_Documentation Documentation

Auto-generated Documentation

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Contents

1   Overview

This document provides comprehensive documentation for **API_Documentation**. It includes API documentation, code analysis, and coverage statistics.

1.1   Documentation Statistics

- **Total Items:** 145

- **Documented Items:** 17

- **Coverage:** 11.7%

- **Modules:** 37

1.2   Project Modules

- `api_updater`

- `env`

- `funkcja`

- `game`

- `game_base`

- `league`

- `league_base`

- `logger_config`

- `main`

- `manager`

- `match`

- `match_base`

- `match_result`

- `match_result_base`

- `player`

- `player_base`

- `player_result`

- `player_result_base`

- `player_stats`

- `player_stats_base`

- `pydantic_models`

- `roboczy`

- `round_score`

- `round_score_base`

- router

- routers

- serie

- serie_base

- stream

- stream_base

- team

- team_base

- test_routers

- tests_models

- tournament

- tournament_base

- tournaments

2 Code Documentation

This section contains detailed documentation for all code elements found in the project.

2.1 Function

2.1.1 setup_loggers

- **Module:** logger_config

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/logger_config.py

- **Line:** 5

Documentation:

This is some stupid docstring

Source Code Preview:

```
"""
This is some stupid docstring
"""
timestamp = time.strftime("%Y%m%d-%H%M%S")
```

2.1.2 PlayerUpdater.__init__

- **Module:** api_updater

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py

- **Line:** 32

Documentation: *No documentation available*

Source Code Preview:

```
self.headers = {
    "Accept": "application/json",
    "Authorization": f"Bearer {api_token}"
}
self.database_manager = DatabaseManager(user=user, password=password, host=host, port=po
```

2.1.3 PlayerUpdater.make_request

- **Module:** api_updater

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py

- **Line:** 40

Documentation: *No documentation available*

Source Code Preview:

```
response = requests.get(url=url, headers=self.headers, params=params, timeout=10)
time.sleep(0.4)
PlayerUpdater.REQUEST_COUNTER += 1
response.raise_for_status()
info_logger.info(f"Total requests made to Pandascore API: {PlayerUpdater.REQUEST_COUNTER
```

2.1.4 PlayerUpdater.get_upcoming_matches

- **Module:** api_updater

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py

- **Line:** 48

Documentation: *No documentation available*

Source Code Preview:

```
params = {
    "filter[future]": "true",
    "sort": "begin_at",
    "per_page": 100,
    "page": 1
```

2.1.5 PlayerUpdater.get_particular_team_url

- **Module:** api_updater

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py

- **Line:** 70

Documentation: *No documentation available*

Source Code Preview:

```
return f'https://api.pandascore.co/teams/{team_id}'
```

2.1.6   `PlayerUpdater.get_particular_player_stats_url`

- **Module:** `api_updater`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py
- **Line:** 73

Documentation: *No documentation available*

Source Code Preview:

```
return f"https://api.pandascore.co/csgo/players/{player_id}/stats"
```

2.1.7   `PlayerUpdater.get_particular_game_stats_url`

- **Module:** `api_updater`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py
- **Line:** 76

Documentation: *No documentation available*

Source Code Preview:

```
return f'https://api.pandascore.co/csgo/games/{game_id}'
```

2.1.8   `PlayerUpdater.get_required_matches_for_particular_player`

- **Module:** `api_updater`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py
- **Line:** 79

Documentation: *No documentation available*

Source Code Preview:

```
return f"https://api.pandascore.co/players/{player_id}/matches?per_page{required_amount_
```

2.1.9   `PlayerUpdater.compare_and_update`

- **Module:** `api_updater`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py
- **Line:** 82

Documentation: *No documentation available*

Source Code Preview:

```
updated = False
for key, value in new_data.items():
    if getattr(existing_data, key) != value:
        setattr(existing_data, key, value)
        updated = True
```

2.1.10 PlayerUpdater.fetch_last_games

- **Module:** api_updater

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py

- **Line:** 90

Documentation: *No documentation available*

Source Code Preview:

```
games_collected: List[int] = []
page = 1

while len(games_collected) < total_games:
    matches_url = self.get_required_matches_for_particular_player(player_id,
```

2.1.11 PlayerUpdater.populate_leagues

- **Module:** api_updater

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py

- **Line:** 142

Documentation: *No documentation available*

Source Code Preview:

```
league_id: int = league_data.get('id')
is_created = False

try:
```

2.1.12 PlayerUpdater.populate_series

- **Module:** api_updater

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py

- **Line:** 189

Documentation: *No documentation available*

Source Code Preview:

```
serie_id: int = series_data.get('id')
is_created = False

try:
    serie = session.query(Serie).filter_by(serie_id=serie_id).one_or_none()
```

2.1.13 PlayerUpdater.populate_tournament

- **Module:** api_updater

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py

- **Line:** 242

Documentation: *No documentation available*

Source Code Preview:

```
tournament_id: int = match_data.get('tournament').get('id')
tournament_data = match_data.get('tournament')
is_created = False

try:
```

2.1.14 PlayerUpdater.populate_team

- **Module:** api_updater

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py

- **Line:** 319

Documentation: *No documentation available*

Source Code Preview:

```
team_id = team_data.get('id')
print(f"players: {team_data}")

is_created = False
```

2.1.15 PlayerUpdater.populate_player

- **Module:** api_updater

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py

- **Line:** 392

Documentation: *No documentation available*

Source Code Preview:

```
player_id = player_data.get('id')
is_created = False

try:
    player = session.query(Player).filter_by(player_id=player_id).one_or_none()
```

2.1.16   PlayerUpdater.populate_match

- **Module:** api_updater

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py

- **Line:** 450

Documentation: *No documentation available*

Source Code Preview:

```
match_id = match_data.get('id')
is_created = False

try:
    match = session.query(Match).filter_by(match_id=match_id).one_or_none()
```

2.1.17   PlayerUpdater.populate_game

- **Module:** api_updater

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py

- **Line:** 554

Documentation: *No documentation available*

Source Code Preview:

```
game_id = game_data.get('id')
is_created = False

try:
    game = session.query(Game).filter_by(game_id=game_id).one_or_none()
```

2.1.18   PlayerUpdater.populate_match_result

- **Module:** api_updater

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py

- **Line:** 608

Documentation: *No documentation available*

Source Code Preview:

```
    match_result_id = match_result_data.get('id')
    is_created = False

    try:
        match_result = session.query(MatchResult).filter_by(id=match_result_id).one_or_none(
```

2.1.19 PlayerUpdater.populate_round_score

- **Module:** api_updater

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py

- **Line:** 647

Documentation: *No documentation available*

Source Code Preview:

```
    if not game_id:
        error_logger.error("No game_id provided for round scores.")
        return

    try:
```

2.1.20 PlayerUpdater.populate_player_result

- **Module:** api_updater

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py

- **Line:** 712

Documentation: *No documentation available*

Source Code Preview:

```
    if not game_id:
        error_logger.error("No game_id provided for player results.")
        return

    for player_data in players_result_data:
```

2.1.21 PlayerUpdater.populate_player_stats

- **Module:** api_updater

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py

- **Line:** 787

Documentation: *No documentation available*

Source Code Preview:

```
try:
    player_stats_data = self.make_request(url=self.get_particular_player_stats_url(playe
    player_stats_data = player_stats_data.json()

    # Map player_stats_data to the PlayerStats model
```

2.1.22   PlayerUpdater.populate_stream

- **Module:** api_updater

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py

- **Line:** 862

Documentation: *No documentation available*

Source Code Preview:

```
stream_id: int = stream_data.get('id')
is_created = False

try:
    stream = session.query(Stream).filter_by(id=stream_id).one_or_none()
```

2.1.23   PlayerUpdater.main_population

- **Module:** api_updater

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py

- **Line:** 908

Documentation: *No documentation available*

Source Code Preview:

```
with self.database_manager.get_session() as session:
    teams_ids = set()
    processed_tournaments = set()
    processed_matches = set()
    processed_teams = set()
```

2.1.24   run_api_updater

- **Module:** api_updater

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py

- **Line:** 1056

Documentation: *No documentation available*

Source Code Preview:

```
start = time.time()
info_logger.info(f"API Updater start: {start}")
try:
    player_updater = PlayerUpdater(api_token=pandascore_api_token, user=db_user, password=db
    upcoming_matches = player_updater.get_upcoming_matches()
```

2.1.25   get_roster_url

- **Module:** test_routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/test_routers.py

- **Line:** 82

Documentation: *No documentation available*

Source Code Preview:

```
return f"https://api.pandascore.co/tournaments/{tournament_id}/rosters"
```

2.1.26   fetch_rosters

- **Module:** test_routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/test_routers.py

- **Line:** 86

Documentation: *No documentation available*

Source Code Preview:

```
response = requests.get(get_roster_url(tournament_id), headers=HEADERS)
response.raise_for_status()
return response.json()
```

2.1.27   get_player_avg_kills_data

- **Module:** test_routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/test_routers.py

- **Line:** 91

Documentation: *No documentation available*

Source Code Preview:

```
player_stats = (db.query(PlayerResult)
                .filter_by(player_id=player_id)
                .order_by(PlayerResult.game_id.desc())
                .limit(x_maps)
                .all()
```

2.1.28 fetch_match_info

- **Module:** test_routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/test_routers.py

- **Line:** 138

Documentation: *No documentation available*

Source Code Preview:

```
match_info = {
    "match_id": match.match_id,
    "teams": []
}
```

2.1.29 get_margin

- **Module:** routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/routers.py

- **Line:** 23

Documentation: *No documentation available*

Source Code Preview:

```
margin_str = data.get("margin", None)
margin_error = None

if margin_str is None:
    margin_error = "Margin value is missing."
```

2.1.30 calculate_odds_kill

- **Module:** routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/routers.py

- **Line:** 39

Documentation: *No documentation available*

Source Code Preview:

```
absolute_kills_value = int(kills)
threshold_kills = absolute_kills_value + 0.5
poisson_distribution = poisson.cdf(absolute_kills_value, kills)
survival_probability = 1 - poisson_distribution
odds1 = 1 / (
```

2.1.31 poisson_probabilities

- **Module:** routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/routers.py

- **Line:** 62

Documentation:

Pre-compute Poisson probabilities for the range of kills using numpy for efficiency.

Source Code Preview:

```
"""Pre-compute Poisson probabilities for the range of kills using numpy for efficiency."""
return poisson.pmf(np.arange(MAX_KILLS + 1), lam)
```

2.1.32 create_probability_matrix

- **Module:** routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/routers.py

- **Line:** 67

Documentation:

Use numpy to efficiently create a probability matrix for two players.

Source Code Preview:

```
"""Use numpy to efficiently create a probability matrix for two players."""
return np.outer(player_a_probs, player_b_probs)
```

2.1.33 calculate_total_probabilities

- **Module:** routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/routers.py

- **Line:** 72

Documentation:

Calculate total probabilities for A wins, draw, and B wins using numpy.

Source Code Preview:

```
"""Calculate total probabilities for A wins, draw, and B wins using numpy."""
prob_b_wins = np.sum(np.triu(prob_matrix, 1))
prob_draw = np.sum(np.diag(prob_matrix))
prob_a_wins = np.sum(np.tril(prob_matrix, -1))
return prob_a_wins, prob_draw, prob_b_wins
```

2.1.34 calculate_odds_h2h

- **Module:** routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/routers.py

- **Line:** 80

Documentation:

Convert probabilities to odds.

Source Code Preview:

```
"""Convert probabilities to odds."""
if prob_draw is None:
    a_prob_without_draw = prob_a / (prob_a + prob_b)
    b_prob_without_draw = prob_b / (prob_b + prob_a)
```

2.1.35 fetch_upcoming_matches

- **Module:** routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/routers.py

- **Line:** 103

Documentation: *No documentation available*

Source Code Preview:

```
global REQUEST_COUNT
params = initial_params.copy() if initial_params else {}
page = 1
aggregated_results = []
while True:
```

2.1.36 DatabaseManager.__init__

- **Module:** manager

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/manager.py

- **Line:** 20

Documentation: *No documentation available*

Source Code Preview:

```
self.database_url = f"postgresql://{user}:{password}@{host}:{port}/{db_name}"
self.engine = create_engine(self.database_url)
self.Session = sessionmaker(bind=self.engine)
```

2.1.37   DatabaseManager.create_tables

- **Module:** manager

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/manager.py

- **Line:** 25

Documentation: *No documentation available*

Source Code Preview:

```
Base.metadata.create_all(self.engine)
```

2.1.38   DatabaseManager.check_all_table_exists

- **Module:** manager

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/manager.py

- **Line:** 28

Documentation: *No documentation available*

Source Code Preview:

```
inspector = inspect(self.engine)
insp = reflection.Inspector.from_engine(self.engine)
print("Tables in the database: ", insp.get_table_names())
existing_tables = inspector.get_table_names()
missing_tables = set(required_tables) - set(existing_tables)
```

2.1.39   DatabaseManager.get_session

- **Module:** manager

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/manager.py

- **Line:** 39

Documentation: *No documentation available*

Source Code Preview:

```
return self.Session()
```

2.1.40 `DatabaseManager.add`

- **Module:** `manager`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/manager.py
- **Line:** 42

Documentation:

Save an instance of a model to the database

Source Code Preview:

```
"""
Save an instance of a model to the database
"""
with self.get_session() as session:
    session.add(instance)
```

2.1.41 `DatabaseManager.get`

- **Module:** `manager`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/manager.py
- **Line:** 52

Documentation:

Fetch a single instance of a model by its ID.

Source Code Preview:

```
"""
Fetch a single instance of a model by its ID.
"""
with self.get_session() as session:
    try:
```

2.1.42 `DatabaseManager.get_all`

- **Module:** `manager`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/manager.py
- **Line:** 62

Documentation:

Fetch all instances of a model

Source Code Preview:

```
"""
Fetch all instances of a model
"""
with self.get_session() as session:
    return session.query(model_class).all()
```

2.1.43 DatabaseManager.update

- **Module:** manager
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/manager.py
- **Line:** 69

Documentation:

Update a single instance of a model by its ID

Source Code Preview:

```
"""
Update a single instance of a model by its ID
"""
with self.get_session() as session:
    object = session.query(model_class).filter(model_class.id == object_id).one()
```

2.1.44 DatabaseManager.delete

- **Module:** manager
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/manager.py
- **Line:** 80

Documentation:

Delete a single instance of a model by its ID

Source Code Preview:

```
"""
Delete a single instance of a model by its ID
"""
with self.get_session() as session:
    try:
```

2.1.45 DatabaseManager.clear_all_data

- **Module:** manager
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/manager.py
- **Line:** 93

Documentation: *No documentation available*

Source Code Preview:

```
with self.get_session() as session:
    meta = MetaData()
    meta.reflect(bind=self.engine)
    for table in reversed(meta.sorted_tables):
        session.execute(table.delete())
```

2.1.46 DatabaseManager.get_session

- **Module:** manager
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/manager.py
- **Line:** 102

Documentation: *No documentation available*

Source Code Preview:

```
session = self.Session()
try:
    yield session
    session.commit()
except:
```

2.1.47 get_db

- **Module:** manager
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/manager.py
- **Line:** 117

Documentation: *No documentation available*

Source Code Preview:

```
with database_manager.get_session() as db:
    yield db
```

2.1.48 PlayerBase.serialize_birthday

- **Module:** player_base
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/schemas/player_base.py
- **Line:** 22

Documentation: *No documentation available*

Source Code Preview:

```
if birthday is not None:
    return birthday.strftime('%Y-%m-%d')
return None
```

2.1.49 PlayerBase.serialize_modified_at

- **Module:** player_base

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/schemas/player_base.py

- **Line:** 28

Documentation: *No documentation available*

Source Code Preview:

```
if modified_at is not None:
    return modified_at.isoformat()
return None
```

2.1.50 pp

- **Module:** funkcja

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/temporary/funkcja.py

- **Line:** 6

Documentation: *No documentation available*

Source Code Preview:

```
return (srednia ** k / (factorial(k))) * exp(-srednia)
```

2.1.51 dp

- **Module:** funkcja

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/temporary/funkcja.py

- **Line:** 10

Documentation: *No documentation available*

Source Code Preview:

```
p = 0
for m in range(k + 1, k + 30):
    p = p + pp(srednia, m)
return p
```

2.1.52 wynik

- **Module:** funkcja
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/temporary/funkcja.py
- **Line:** 17

Documentation: *No documentation available*

Source Code Preview:

```
zaw = list(srednie.keys())
s = 0
for z in zaw:
    s = s + srednie[z]
p = {}
```

2.1.53 roster_url

- **Module:** tournaments
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/temporary/tournaments.p
- **Line:** 7

Documentation: *No documentation available*

Source Code Preview:

```
return f"https://api.pandascore.co/tournaments/{tournament_id}/rosters"
```

2.1.54 fetch_matches

- **Module:** roboczy
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/temporary/roboczy.py
- **Line:** 10

Documentation: *No documentation available*

Source Code Preview:

```
global REQUEST_COUNT
headers = {
    "Accept": "application/json",
    "Authorization": f"Bearer {api_token}"
}
```

2.1.55 `initialize_api`

- **Module:** `main`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api/main.py
- **Line:** 10

Documentation: *No documentation available*

Source Code Preview:

```
app = FastAPI(
    root_path="/api/v1"
)

app.add_middleware(
```

2.1.56 `get_margin`

- **Module:** `router`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api/cs2/router.py
- **Line:** 22

Documentation: *No documentation available*

Source Code Preview:

```
margin_str = data.get("margin", None)
margin_error = None

if margin_str is None:
    margin_error = "Margin value is missing."
```

2.1.57 `calculate_odds`

- **Module:** `router`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api/cs2/router.py
- **Line:** 38

Documentation: *No documentation available*

Source Code Preview:

```
absolute_kills_value = int(kills)
threshold_kills = absolute_kills_value + 0.5
poisson_distribution = poisson.cdf(absolute_kills_value, kills)
survival_probability = 1 - poisson_distribution
odds1 = 1 / (
```

2.1.58   `poisson_probabilities`

- **Module:** router
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api/cs2/router.py
- **Line:** 61

Documentation:

Pre-compute Poisson probabilities for the range of kills using numpy for efficiency.

Source Code Preview:

```
"""Pre-compute Poisson probabilities for the range of kills using numpy for efficiency."""
return poisson.pmf(np.arange(MAX_KILLS + 1), lam)
```

2.1.59   `create_probability_matrix`

- **Module:** router
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api/cs2/router.py
- **Line:** 66

Documentation:

Use numpy to efficiently create a probability matrix for two players.

Source Code Preview:

```
"""Use numpy to efficiently create a probability matrix for two players."""
return np.outer(player_a_probs, player_b_probs)
```

2.1.60   `calculate_total_probabilities`

- **Module:** router
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api/cs2/router.py
- **Line:** 71

Documentation:

Calculate total probabilities for A wins, draw, and B wins using numpy.

Source Code Preview:

```
"""Calculate total probabilities for A wins, draw, and B wins using numpy."""
prob_b_wins = np.sum(np.triu(prob_matrix, 1))
prob_draw = np.sum(np.diag(prob_matrix))
prob_a_wins = np.sum(np.tril(prob_matrix, -1))
return prob_a_wins, prob_draw, prob_b_wins
```

2.1.61 calculate_odds

- **Module:** router
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api/cs2/router.py
- **Line:** 79

Documentation:

Convert probabilities to odds.

Source Code Preview:

```
"""Convert probabilities to odds."""
if prob_draw is None:
    a_prob_without_draw = prob_a / (prob_a + prob_b)
    b_prob_without_draw = prob_b / (prob_b + prob_a)
```

2.1.62 fetch_upcoming_matches

- **Module:** router
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api/cs2/router.py
- **Line:** 102

Documentation: *No documentation available*

Source Code Preview:

```
global REQUEST_COUNT
params = initial_params.copy() if initial_params else {}
page = 1
aggregated_results = []
while True:
```

2.1.63 test_league_model

- **Module:** tests_models
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/tests/tests_models.py
- **Line:** 12

Documentation: *No documentation available*

Source Code Preview:

```
league_data = {
    "id": 1,
    "name": "Test League",
    "slug": "test-league",
    "modified_at": datetime.utcnow(),
```

2.1.64 test_serie_model

- **Module:** tests_models

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/tests/tests_models.py

- **Line:** 38

Documentation: *No documentation available*

Source Code Preview:

```
serie_data = {
    "id": 1,
    "begin_at": datetime.utcnow(),
    "end_at": datetime.utcnow(),
    "full_name": "Test Serie",
```

2.1.65 test_team_model

- **Module:** tests_models

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/tests/tests_models.py

- **Line:** 59

Documentation: *No documentation available*

Source Code Preview:

```
team_data = {
    "id": 1,
    "name": "Test Team",
    "slug": "test-team",
    "modified_at": datetime.utcnow(),
```

2.1.66 run_migrations_offline

- **Module:** env

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/alembic/env.py

- **Line:** 34

Documentation:

Run migrations in 'offline' mode.

This configures the context with just a URL and not an Engine, though an Engine is acceptable here as well. By skipping the Engine creation, we don't even need a DBAPI to be available.

Calls to context.execute() here emit the given string to the script output.

Source Code Preview:

```
"""Run migrations in 'offline' mode.

This configures the context with just a URL
and not an Engine, though an Engine is acceptable
here as well.  By skipping the Engine creation,
```

2.1.67 run_migrations_online

- **Module:** `env`

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/alembic/env.py

- **Line:** 58

Documentation:

> Run migrations in 'online' mode.
>
> In this scenario, we need to create an Engine and associate a connection with the context.

Source Code Preview:

```
"""Run migrations in 'online' mode.

In this scenario, we need to create an Engine
and associate a connection with the context.
```

2.2 Class

2.2.1 PlayerUpdater

- **Module:** `api_updater`

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py

- **Line:** 28

Documentation: *No documentation available*

2.2.2 MatchStatuses

- **Module:** `test_routers`

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/test_routers.py

- **Line:** 18

Documentation: *No documentation available*

2.2.3 `DatabaseManager`

- **Module:** `manager`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/manager.py
- **Line:** 19

Documentation: *No documentation available*

2.2.4 `MatchResult`

- **Module:** `match_result`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/models/match_r
- **Line:** 8

Documentation: *No documentation available*

2.2.5 `Game`

- **Module:** `game`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/models/game.py
- **Line:** 7

Documentation: *No documentation available*

2.2.6 `League`

- **Module:** `league`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/models/league.
- **Line:** 6

Documentation: *No documentation available*

2.2.7 `PlayerStats`

- **Module:** `player_stats`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/models/player_
- **Line:** 6

Documentation: *No documentation available*

2.2.8 `Team`

- **Module:** `team`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/models/team.py
- **Line:** 7

Documentation: *No documentation available*

2.2.9 `Stream`

- **Module:** `stream`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/models/stream.
- **Line:** 7

Documentation: *No documentation available*

2.2.10 `Player`

- **Module:** `player`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/models/player.
- **Line:** 6

Documentation: *No documentation available*

2.2.11 `Serie`

- **Module:** `serie`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/models/serie.p
- **Line:** 6

Documentation: *No documentation available*

2.2.12 `RoundScore`

- **Module:** `round_score`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/models/round_s
- **Line:** 7

Documentation: *No documentation available*

2.2.13 `PlayerResult`

- **Module:** `player_result`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/models/player_
- **Line:** 7

Documentation: *No documentation available*

2.2.14 Tournament

- **Module:** `tournament`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/models/tournam
- **Line:** 9

Documentation: *No documentation available*

2.2.15 Match

- **Module:** `match`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/models/match.p
- **Line:** 8

Documentation: *No documentation available*

2.3   Async Function

2.3.1 upcoming_matches

- **Module:** `test_routers`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/test_routers.py
- **Line:** 32

Documentation: *No documentation available*

Source Code Preview:

```
matches = db.query(Match).where(Match.status == MatchStatuses.NOT_STARTED.value).join(Match.

if not matches:
    raise HTTPException(status_code=404, detail="No upcoming matches found")
```

2.3.2 all_players_list

- **Module:** `test_routers`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/test_routers.py
- **Line:** 42

Documentation: *No documentation available*

Source Code Preview:

```
try:
    players = db.query(Player).all()
    if not players:
        raise HTTPException(status_code=404, detail="No players found")
    return players
```

2.3.3   add_player_to_team

- **Module:** test_routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/test_routers.py

- **Line:** 53

Documentation: *No documentation available*

Source Code Preview:

```
team = db.query(Team).filter(Team.team_id == team_id).first()
if not team:
    raise HTTPException(status_code=404, detail="Team not found")
player = db.query(Player).filter(Player.player_id == player_id).first()
if not player:
```

2.3.4   remove_player_from_team

- **Module:** test_routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/test_routers.py

- **Line:** 68

Documentation: *No documentation available*

Source Code Preview:

```
team = db.query(Team).filter(Team.team_id == team_id).first()
if not team:
    raise HTTPException(status_code=404, detail="Team not found")
player = db.query(Player).filter(Player.player_id == player_id).first()
if not player:
```

2.3.5   upcoming_matches_with_rosters_and_stats

- **Module:** test_routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/test_routers.py

- **Line:** 211

Documentation: *No documentation available*

Source Code Preview:

```
    match_id: int = None,
    x_maps: int = Query(..., gt=0, description="Number of recent maps to consider for statis
    db: Session = Depends(get_db)):
  if match_id:
      matches = db.query(Match).filter(Match.match_id == match_id).all()
```

2.3.6 match_players_stats

- **Module:** test_routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/test_routers.py

- **Line:** 239

Documentation: *No documentation available*

Source Code Preview:

```
  match = db.query(Match).filter(Match.match_id == id).one_or_none()

  if not match:
      raise HTTPException(status_code=404, detail="Match not found")
```

2.3.7 upcoming_matches

- **Module:** routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/routers.py

- **Line:** 129

Documentation: *No documentation available*

Source Code Preview:

```
  api_token = os.getenv("PANDASCORE_API_TOKEN")
  if not api_token:
      raise HTTPException(status_code=500, detail="API token is missing")

  url = 'https://api.pandascore.co/csgo/matches/upcoming'
```

2.3.8 optimized_fetch_and_aggregate

- **Module:** routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/routers.py

- **Line:** 152

Documentation: *No documentation available*

Source Code Preview:

```
start = time.time()
global REQUEST_COUNT
player_games = defaultdict(list)
player_details = defaultdict(lambda: {"kills": [], "headshots": [], "rounds": []})
unique_game_ids = set()
```

2.3.9   predict_stats

- **Module:** routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/routers.py

- **Line:** 312

Documentation: *No documentation available*

Source Code Preview:

```
data = await request.json()
players_data = data.get("players", [])
teams_data = data.get("teams", [])
sum_kills_team1 = float(data.get("sum_kills_team1", 0))
sum_kills_team2 = float(data.get("sum_kills_team2", 0))
```

2.3.10   generate_h2h_data

- **Module:** routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/routers.py

- **Line:** 360

Documentation: *No documentation available*

Source Code Preview:

```
data = await request.json()
margin = data.get("margin", 1.08)  # Default margin
players_data = data.get("players")
if not players_data or not margin:
    raise HTTPException(status_code=400, detail="Missing or invalid data in the request")
```

2.3.11   generate_over_under_data

- **Module:** routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/routers.py

- **Line:** 393

Documentation: *No documentation available*

Source Code Preview:

```
try:
    data = await request.json()
    margin, margin_error = get_margin(data)
    if margin_error:
        return JSONResponse(content={"margin_error": margin_error}, status_code=400)
```

2.3.12 upcoming_matches

- **Module:** router

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api/cs2/router.py

- **Line:** 128

Documentation: *No documentation available*

Source Code Preview:

```
api_token = os.getenv("PANDASCORE_API_TOKEN")
if not api_token:
    raise HTTPException(status_code=500, detail="API token is missing")

url = 'https://api.pandascore.co/csgo/matches/upcoming'
```

2.3.13 optimized_fetch_and_aggregate

- **Module:** router

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api/cs2/router.py

- **Line:** 151

Documentation: *No documentation available*

Source Code Preview:

```
start = time.time()
global REQUEST_COUNT
player_games = defaultdict(list)
player_details = defaultdict(lambda: {"kills": [], "headshots": [], "rounds": []})
unique_game_ids = set()
```

2.3.14 predict_stats

- **Module:** router

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api/cs2/router.py

- **Line:** 311

Documentation: *No documentation available*

Source Code Preview:

```
data = await request.json()
players_data = data.get("players", [])
sum_kills_team1 = float(data.get("sum_kills_team1", 0))
sum_kills_team2 = float(data.get("sum_kills_team2", 0))
predicted_kills_team1_map1 = float(data.get("predicted_kills_team1_map1", 0)) / 2
```

2.3.15 generate_h2h_data

- **Module:** router

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api/cs2/router.py

- **Line:** 358

Documentation: *No documentation available*

Source Code Preview:

```
data = await request.json()
margin = data.get("margin", 1.08)  # Default margin
players_data = data.get("players")
if not players_data or not margin:
    raise HTTPException(status_code=400, detail="Missing or invalid data in the request")
```

2.3.16 generate_over_under_data

- **Module:** router

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api/cs2/router.py

- **Line:** 391

Documentation: *No documentation available*

Source Code Preview:

```
try:
    data = await request.json()
    margin, margin_error = get_margin(data)
    if margin_error:
        return JSONResponse(content={"margin_error": margin_error}, status_code=400)
```

2.4   Get

2.4.1 upcoming_matches

- **Module:** test_routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/test_routers.py

- **Line:** 32

Documentation: *No documentation available*

Source Code Preview:

```
matches = db.query(Match).where(Match.status == MatchStatuses.NOT_STARTED.value).join(Match.

if not matches:
    raise HTTPException(status_code=404, detail="No upcoming matches found")
```

2.4.2   all_players_list

- **Module:** test_routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/test_routers.py

- **Line:** 42

Documentation: *No documentation available*

Source Code Preview:

```
try:
    players = db.query(Player).all()
    if not players:
        raise HTTPException(status_code=404, detail="No players found")
    return players
```

2.4.3   upcoming_matches_with_rosters_and_stats

- **Module:** test_routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/test_routers.py

- **Line:** 211

Documentation: *No documentation available*

Source Code Preview:

```
    match_id: int = None,
    x_maps: int = Query(..., gt=0, description="Number of recent maps to consider for statis
    db: Session = Depends(get_db)):
if match_id:
    matches = db.query(Match).filter(Match.match_id == match_id).all()
```

2.4.4   match_players_stats

- **Module:** test_routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/test_routers.py

- **Line:** 239

Documentation: *No documentation available*

Source Code Preview:

```
match = db.query(Match).filter(Match.match_id == id).one_or_none()

if not match:
    raise HTTPException(status_code=404, detail="Match not found")
```

2.4.5 upcoming_matches

- **Module:** routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/routers.py

- **Line:** 129

Documentation: *No documentation available*

Source Code Preview:

```
api_token = os.getenv("PANDASCORE_API_TOKEN")
if not api_token:
    raise HTTPException(status_code=500, detail="API token is missing")

url = 'https://api.pandascore.co/csgo/matches/upcoming'
```

2.4.6 optimized_fetch_and_aggregate

- **Module:** routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/routers.py

- **Line:** 152

Documentation: *No documentation available*

Source Code Preview:

```
start = time.time()
global REQUEST_COUNT
player_games = defaultdict(list)
player_details = defaultdict(lambda: {"kills": [], "headshots": [], "rounds": []})
unique_game_ids = set()
```

2.4.7 upcoming_matches

- **Module:** router

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api/cs2/router.py

- **Line:** 128

Documentation: *No documentation available*

Source Code Preview:

```
api_token = os.getenv("PANDASCORE_API_TOKEN")
if not api_token:
    raise HTTPException(status_code=500, detail="API token is missing")

url = 'https://api.pandascore.co/csgo/matches/upcoming'
```

2.4.8   optimized_fetch_and_aggregate

- **Module:** router

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api/cs2/router.py

- **Line:** 151

Documentation: *No documentation available*

Source Code Preview:

```
start = time.time()
global REQUEST_COUNT
player_games = defaultdict(list)
player_details = defaultdict(lambda: {"kills": [], "headshots": [], "rounds": []})
unique_game_ids = set()
```

2.5   Post

2.5.1   add_player_to_team

- **Module:** test_routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/test_routers.py

- **Line:** 53

Documentation: *No documentation available*

Source Code Preview:

```
team = db.query(Team).filter(Team.team_id == team_id).first()
if not team:
    raise HTTPException(status_code=404, detail="Team not found")
player = db.query(Player).filter(Player.player_id == player_id).first()
if not player:
```

2.5.2   predict_stats

- **Module:** routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/routers.py

- **Line:** 312

Documentation: *No documentation available*

Source Code Preview:

```
data = await request.json()
players_data = data.get("players", [])
teams_data = data.get("teams", [])
sum_kills_team1 = float(data.get("sum_kills_team1", 0))
sum_kills_team2 = float(data.get("sum_kills_team2", 0))
```

2.5.3   generate_h2h_data

- **Module:** routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/routers.py

- **Line:** 360

Documentation: *No documentation available*

Source Code Preview:

```
data = await request.json()
margin = data.get("margin", 1.08)  # Default margin
players_data = data.get("players")
if not players_data or not margin:
    raise HTTPException(status_code=400, detail="Missing or invalid data in the request")
```

2.5.4   generate_over_under_data

- **Module:** routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/routers.py

- **Line:** 393

Documentation: *No documentation available*

Source Code Preview:

```
try:
    data = await request.json()
    margin, margin_error = get_margin(data)
    if margin_error:
        return JSONResponse(content={"margin_error": margin_error}, status_code=400)
```

2.5.5   predict_stats

- **Module:** router

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api/cs2/router.py

- **Line:** 311

Documentation: *No documentation available*

Source Code Preview:

```
data = await request.json()
players_data = data.get("players", [])
sum_kills_team1 = float(data.get("sum_kills_team1", 0))
sum_kills_team2 = float(data.get("sum_kills_team2", 0))
predicted_kills_team1_map1 = float(data.get("predicted_kills_team1_map1", 0)) / 2
```

2.5.6 generate_h2h_data

- **Module:** router

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api/cs2/router.py

- **Line:** 358

Documentation: *No documentation available*

Source Code Preview:

```
data = await request.json()
margin = data.get("margin", 1.08)  # Default margin
players_data = data.get("players")
if not players_data or not margin:
    raise HTTPException(status_code=400, detail="Missing or invalid data in the request")
```

2.5.7 generate_over_under_data

- **Module:** router

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api/cs2/router.py

- **Line:** 391

Documentation: *No documentation available*

Source Code Preview:

```
try:
    data = await request.json()
    margin, margin_error = get_margin(data)
    if margin_error:
        return JSONResponse(content={"margin_error": margin_error}, status_code=400)
```

2.6 Delete

2.6.1 remove_player_from_team

- **Module:** test_routers

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/test_routers.py

- **Line:** 68

Documentation: *No documentation available*

Source Code Preview:

```
team = db.query(Team).filter(Team.team_id == team_id).first()
if not team:
    raise HTTPException(status_code=404, detail="Team not found")
player = db.query(Player).filter(Player.player_id == player_id).first()
if not player:
```

2.7   Middleware

2.7.1   `app.middleware`

- **Module:** `main`

- **File:** `/Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/main.py`

- **Line:** 13

Documentation: *No documentation available*

2.7.2   `app.middleware`

- **Module:** `main`

- **File:** `/Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api/main.py`

- **Line:** 15

Documentation: *No documentation available*

2.8   Router Inclusion

2.8.1   `app.router_inclusion`

- **Module:** `main`

- **File:** `/Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/main.py`

- **Line:** 21

Documentation: *No documentation available*

2.8.2   `app.router_inclusion`

- **Module:** `main`

- **File:** `/Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/main.py`

- **Line:** 22

Documentation: *No documentation available*

2.8.3 `app.router_inclusion`

- **Module:** `main`

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api/main.py

- **Line:** 23

Documentation: *No documentation available*

2.9   Pydantic Model

2.9.1 `LeagueBase`

- **Module:** `pydantic_models`

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/pydantic_models.py

- **Line:** 7

Documentation: *No documentation available*

2.9.2 `SerieBase`

- **Module:** `pydantic_models`

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/pydantic_models.py

- **Line:** 17

Documentation: *No documentation available*

2.9.3 `GameBase`

- **Module:** `pydantic_models`

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/pydantic_models.py

- **Line:** 33

Documentation: *No documentation available*

2.9.4 `PlayerBase`

- **Module:** `pydantic_models`

- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/pydantic_models.py

- **Line:** 49

Documentation: *No documentation available*

2.9.5 PlayerStatsBase

- **Module:** pydantic_models
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/pydantic_models.py
- **Line:** 64

Documentation: *No documentation available*

2.9.6 PlayerResultBase

- **Module:** pydantic_models
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/pydantic_models.py
- **Line:** 110

Documentation: *No documentation available*

2.9.7 StreamBase

- **Module:** pydantic_models
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/pydantic_models.py
- **Line:** 129

Documentation: *No documentation available*

2.9.8 RoundScoreBase

- **Module:** pydantic_models
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/pydantic_models.py
- **Line:** 140

Documentation: *No documentation available*

2.9.9 MatchResultBase

- **Module:** pydantic_models
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/pydantic_models.py
- **Line:** 150

Documentation: *No documentation available*

2.9.10 MatchBase

- **Module:** pydantic_models
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/pydantic_models.py
- **Line:** 163

Documentation: *No documentation available*

2.9.11   TeamBase

- **Module:** pydantic_models
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/pydantic_models.py
- **Line:** 189

Documentation: *No documentation available*

2.9.12   TournamentBase

- **Module:** pydantic_models
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/pydantic_models.py
- **Line:** 202

Documentation: *No documentation available*

2.9.13   MatchResultBase

- **Module:** match_result_base
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/schemas/match_result_ba
- **Line:** 6

Documentation: *No documentation available*

2.9.14   PlayerBase

- **Module:** player_base
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/schemas/player_base.py
- **Line:** 7

Documentation: *No documentation available*

2.9.15   StreamBase

- **Module:** stream_base
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/schemas/stream_base.py
- **Line:** 6

Documentation: *No documentation available*

2.9.16   `RoundScoreBase`

- **Module:** `round_score_base`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/schemas/round_score_bas
- **Line:** 6

Documentation: *No documentation available*

2.9.17   `PlayerResultBase`

- **Module:** `player_result_base`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/schemas/player_result_b
- **Line:** 6

Documentation: *No documentation available*

2.9.18   `MatchBase`

- **Module:** `match_base`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/schemas/match_base.py
- **Line:** 7

Documentation: *No documentation available*

2.9.19   `LeagueBase`

- **Module:** `league_base`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/schemas/league_base.py
- **Line:** 7

Documentation: *No documentation available*

2.9.20   `TeamBase`

- **Module:** `team_base`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/schemas/team_base.py
- **Line:** 7

Documentation: *No documentation available*

2.9.21   `GameBase`

- **Module:** `game_base`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/schemas/game_base.py
- **Line:** 7

Documentation: *No documentation available*

2.9.22   `TournamentBase`

- **Module:** `tournament_base`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/schemas/tournament_base
- **Line:** 9

Documentation: *No documentation available*

2.9.23   `PlayerStatsBase`

- **Module:** `player_stats_base`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/schemas/player_stats_ba
- **Line:** 6

Documentation: *No documentation available*

2.9.24   `SerieBase`

- **Module:** `serie_base`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/schemas/serie_base.py
- **Line:** 7

Documentation: *No documentation available*

2.10   Classmethod

2.10.1   `PlayerBase.from_orm`

- **Module:** `player_base`
- **File:** /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/schemas/player_base.py
- **Line:** 34

Documentation: *No documentation available*

Source Code Preview:

```
data = super().from_orm(obj)
if isinstance(data.modified_at, datetime):
    data.modified_at = data.modified_at.isoformat()
return data
```

2.11   Metadata

2.11.1   `app`

- **Module:** `main`

- **File:** `/Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api/main.py`

- **Line:** 11

Documentation:

/api/v1

3   UML Diagrams

This section contains UML diagrams that visualize the project structure and relationships.

3.1   Diagram Analysis

- **Classes Found:** 27

- **Relationships Found:** 86

- **Packages:** match_base, team_base, team, player_stats, stream_base, game, game_base, serie, round_score, tournament_base, manager, player_base, match, player_result, match_result, tournament, player_result_base, stream, league_base, player_stats_base, round_score_base, league, player, serie_base, match_result_base, api_updater, test_routers

3.2   Main Diagram

The main UML diagram shows the overall structure of the system.

PlantUML Source:

```
@startuml
!theme plain
skinparam classAttributeIconSize 0
skinparam classFontSize 12
skinparam packageStyle rectangle

skinparam class<<service>>BackgroundColor #E1F5FE
skinparam class<<service>>BorderColor #2196F3
skinparam class<<model>>BackgroundColor #E8F5E8
skinparam class<<model>>BorderColor #4CAF50
skinparam class<<repository>>BackgroundColor #FFF3E0
skinparam class<<repository>>BorderColor #FF9800
skinparam class<<controller>>BackgroundColor #F3E5F5
skinparam class<<controller>>BorderColor #9C27B0
skinparam class<<configuration>>BackgroundColor #FFEBEE
skinparam class<<configuration>>BorderColor #F44336
skinparam class<<interface>>BackgroundColor #F1F8E9
skinparam class<<interface>>BorderColor #8BC34A

left to right direction
```

```
package api_updater {
  class PlayerUpdater {
  }
}

package test_routers {
  class MatchStatuses {
  }
}

package league_base {
  class LeagueBase <<model>> {
  }
}

package serie_base {
  class SerieBase <<model>> {
  }
}

package game_base {
  class GameBase <<model>> {
  }
}

package player_base {
  class PlayerBase <<model>> {
  }
}

package player_stats_base {
  class PlayerStatsBase <<model>> {
  }
}

package player_result_base {
  class PlayerResultBase <<model>> {
  }
}

package stream_base {
  class StreamBase <<model>> {
  }
}

package round_score_base {
  class RoundScoreBase <<model>> {
  }
}

package match_result_base {
  class MatchResultBase <<model>> {
```

```
  }
}

package match_base {
  class MatchBase <<model>> {
  }
}

package team_base {
  class TeamBase <<model>> {
  }
}

package tournament_base {
  class TournamentBase <<model>> {
  }
}

package manager {
  class DatabaseManager {
  }
}


@enduml
```

3.3   Additional Diagrams

3.3.1   Sequence Diagram

```
@startuml
title upcoming_matches Request Flow

participant Client
participant Router
participant Endpoint
participant Service
participant Repository
participant Database

Client -> Router : HTTP Request
Router -> Endpoint : route()
Endpoint -> Service : process()
Service -> Repository : save()
Repository -> Database : execute()
Database --> Repository : result
Repository --> Service : data
Service --> Endpoint : response
Endpoint --> Router : HTTP Response
Router --> Client : JSON Response

@enduml
```

3.3.2   Component Diagram

```
@startuml
!include <C4/C4_Component>

title FastAPI Application Architecture

Container_Boundary(api, "API Layer") {
  Component(router, "Routers", "FastAPI", "HTTP endpoint routing")
  Component(middleware, "Middleware", "FastAPI", "Request/response processing")
}

Container_Boundary(service, "Service Layer") {
  Component(services, "Services", "Python", "Business logic")
  Component(deps, "Dependencies", "FastAPI", "Dependency injection")
}

Container_Boundary(data, "Data Layer") {
  Component(models, "Models", "Pydantic", "Data validation")
  Component(repo, "Repositories", "Python", "Data access")
}

Container_Boundary(external, "External") {
  Component(db, "Database", "Database", "Data storage")
  Component(confluence, "Confluence", "Atlassian", "Documentation")
}

Rel(router, services, "calls")
Rel(services, models, "validates")
Rel(services, repo, "queries")
Rel(repo, db, "persists")
Rel(services, confluence, "publishes")

@enduml
```

4   Coverage Analysis

4.1   Function Coverage

67 total items, 16 documented (23.9%).

4.2   Class Coverage

15 total items, 0 documented (0.0%).

4.3   Async Function Coverage

16 total items, 0 documented (0.0%).

4.4   Get Coverage

8 total items, 0 documented (0.0%).

4.5   Post Coverage

7 total items, 0 documented (0.0%).

4.6 Delete Coverage

1 total items, 0 documented (0.0%).

4.7 Middleware Coverage

2 total items, 0 documented (0.0%).

4.8 Router Inclusion Coverage

3 total items, 0 documented (0.0%).

4.9 Pydantic Model Coverage

24 total items, 0 documented (0.0%).

4.10 Classmethod Coverage

1 total items, 0 documented (0.0%).

4.11 Metadata Coverage

1 total items, 1 documented (100.0%).

5 Conclusion

This documentation was automatically generated from the codebase analysis. For the most up-to-date information, please refer to the source code and regenerate this documentation as needed.