API Documentation Documentation

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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: 16

• Coverage: 11.0%

• 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: No documentation available

```
timestamp = time.strftime("%Y%m%d-%H%M%S")

info_logger = logging.getLogger('info_logger')
error_logger = logging.getLogger('error_logger')
```

2.1.2 PlayerUpdater.__init__

Source Code Preview:

- Module: api_updater
- File: /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py
- Line: 32

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

2.1.3 PlayerUpdater.make_request

Source Code Preview:

• Module: api_updater

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

• Line: 40

Documentation: No documentation available

```
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}. I've hit url: {url}")
```

2.1.4 PlayerUpdater.get_upcoming_matches Source Code Preview:

• Module: api_updater

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

• Line: 48

Documentation: No documentation available

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

2.1.5 PlayerUpdater.get_particular_team_url Source Code Preview:

• Module: api_updater

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

• Line: 70

Documentation: No documentation available

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

- 2.1.6 PlayerUpdater.get_particular_player_stats_url Source Code Preview:
 - Module: api_updater
 - File: /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py
 - Line: 73

Documentation: No documentation available

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

- 2.1.7 PlayerUpdater.get_particular_game_stats_url Source Code Preview:
 - Module: api_updater
 - File: /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py
 - Line: 76

Documentation: No documentation available

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

- ${\bf 2.1.8} \quad {\tt PlayerUpdater.get_required_matches_for_particular_player} \\ {\bf Source~Code~Preview:}$
 - Module: api_updater
 - File: /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api_updater.py
 - Line: 79

```
return f"https://api.pandascore.co/players/{player_id}/matches?per_page{
required_amount_of_matches}&sort=-modified_at"
```

2.1.9 PlayerUpdater.compare_and_update Source Code Preview:

• Module: api_updater

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

• Line: 82

Documentation: No documentation available

```
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 Source Code Preview:

• Module: api_updater

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

• Line: 90

Documentation: No documentation available

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

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

2.1.11 PlayerUpdater.populate_leagues Source Code Preview:

• Module: api_updater

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

• Line: 142

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

2.1.12 PlayerUpdater.populate_series Source Code Preview:

• Module: api_updater

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

• Line: 189

Documentation: No documentation available

```
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 Source Code Preview:

• Module: api_updater

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

• Line: 242

Documentation: No documentation available

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

${\bf 2.1.14} \quad {\tt PlayerUpdater.populate_team}$

Source Code Preview:

• Module: api_updater

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

• Line: 319

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

is_created = False
```

2.1.15 PlayerUpdater.populate_player Source Code Preview:

• Module: api_updater

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

• Line: 392

Documentation: No documentation available

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

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

${\bf 2.1.16} \quad {\tt PlayerUpdater.populate_match}$

Source Code Preview:

• Module: api_updater

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

• Line: 450

Documentation: No documentation available

```
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 Source Code Preview:

• Module: api_updater

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

• Line: 554

```
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 Source Code Preview:

• Module: api_updater

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

• Line: 608

Documentation: No documentation available

```
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 Source Code Preview:

• Module: api_updater

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

• Line: 647

Documentation: No documentation available

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

try:
```

2.1.20 PlayerUpdater.populate_player_result Source Code Preview:

• Module: api_updater

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

• Line: 712

```
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 Source Code Preview:

• Module: api_updater

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

• Line: 787

Documentation: No documentation available

2.1.22 PlayerUpdater.populate_stream Source Code Preview:

• Module: api_updater

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

• Line: 862

Documentation: No documentation available

```
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 Source Code Preview:

• Module: api_updater

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

• Line: 908

```
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 Source Code Preview:

• Module: api_updater

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

• Line: 1056

Documentation: No documentation available

```
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_password, host=db_host, port=db_port, db_name=db_name)
upcoming_matches = player_updater.get_upcoming_matches()
```

2.1.25 get_roster_url Source Code Preview:

• Module: test_routers

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

• Line: 82

Documentation: No documentation available

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

2.1.26 fetch_rosters Source Code Preview:

• Module: test_routers

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

• Line: 86

```
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 Source Code Preview:

- Module: test_routers
- File: /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/test_routers.py
- Line: 91

Documentation: No documentation available

2.1.28 fetch_match_info Source Code Preview:

- Module: test_routers
- File: /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/test_routers.py
- Line: 138

Documentation: No documentation available

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

2.1.29 get_margin Source Code Preview:

- Module: routers
- File: /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/routers.py
- Line: 23

```
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

Source Code Preview:

• Module: routers

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

• Line: 39

Documentation: No documentation available

```
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

Source Code Preview:

• 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.

```
"""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

Source Code Preview:

- 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.

```
"""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 Source Code Preview:

- 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.

```
"""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

Source Code Preview:

- Module: routers
- File: /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/routers.py
- Line: 80

Documentation:

Convert probabilities to odds.

```
"""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

Source Code Preview:

- Module: routers
- File: /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/routers.py
- Line: 103

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

2.1.36 DatabaseManager.__init__

Source Code Preview:

- Module: manager
- $\bullet \ \ File: \ / Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/manager.py \\$
- Line: 20

Documentation: No documentation available

```
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

Source Code Preview:

- Module: manager
- File: /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/manager.py
- Line: 25

Documentation: No documentation available

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

2.1.38 DatabaseManager.check_all_table_exists

Source Code Preview:

- Module: manager
- File: /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/manager.py
- Line: 28

Documentation: No documentation available

```
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

Source Code Preview:

- Module: manager
- File: /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/manager.py
- Line: 39

Documentation: No documentation available

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

2.1.40 DatabaseManager.add

Source Code Preview:

- 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

```
Save an instance of a model to the database

with self.get_session() as session:

session.add(instance)
```

2.1.41 DatabaseManager.get

Source Code Preview:

- 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.

```
Fetch a single instance of a model by its ID.

With self.get_session() as session:

try:
```

2.1.42 DatabaseManager.get_all

Source Code Preview:

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

Documentation:

Fetch all instances of a model

```
Fetch all instances of a model

with self.get_session() as session:

return session.query(model_class).all()
```

2.1.43 DatabaseManager.update

Source Code Preview:

• 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

```
Update a single instance of a model by its ID

u"""

with self.get_session() as session:
    object = session.query(model_class).filter(model_class.id == object_id).
one()
```

2.1.44 DatabaseManager.delete

Source Code Preview:

• 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

```
Delete a single instance of a model by its ID

with self.get_session() as session:

try:
```

2.1.45 DatabaseManager.clear_all_data Source Code Preview:

• Module: manager

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

• Line: 93

Documentation: No documentation available

```
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 Source Code Preview:

• Module: manager

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

• Line: 102

Documentation: No documentation available

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

2.1.47 get_db

Source Code Preview:

• Module: manager

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

• Line: 117

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

2.1.48 PlayerBase.serialize_birthday Source Code Preview:

• Module: player_base

 $\bullet \ \ File: / Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/schemas/player_base.py$

• Line: 22

Documentation: No documentation available

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

2.1.49 PlayerBase.serialize_modified_at Source Code Preview:

• Module: player_base

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

• Line: 28

Documentation: No documentation available

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

2.1.50 pp

Source Code Preview:

• Module: funkcja

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

• Line: 6

Documentation: No documentation available

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

2.1.51 dp

Source Code Preview:

• Module: funkcja

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

• **Line:** 10

Documentation: No documentation available

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

2.1.52 wynik

Source Code Preview:

• Module: funkcja

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

• Line: 17

Documentation: No documentation available

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

2.1.53 roster_url

Source Code Preview:

• Module: tournaments

• File: /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/temporary/tournaments.p

• Line: 7

Documentation: No documentation available

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

2.1.54 fetch_matches

Source Code Preview:

• Module: roboczy

• File: /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/temporary/roboczy.py

• Line: 10

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

2.1.55 initialize_api Source Code Preview:

• Module: main

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

• Line: 10

Documentation: No documentation available

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

app.add_middleware(
```

2.1.56 get_margin Source Code Preview:

• Module: router

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

• Line: 22

Documentation: No documentation available

```
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 Source Code Preview:

• Module: router

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

• Line: 38

```
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

Source Code Preview:

- 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.

```
"""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

Source Code Preview:

- 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.

```
"""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

Source Code Preview:

- 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.

```
"""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 Source Code Preview:

• Module: router

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

• Line: 79

Documentation:

Convert probabilities to odds.

```
"""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)
```

${\bf 2.1.62} \quad {\tt fetch_upcoming_matches}$

Source Code Preview:

• Module: router

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

• Line: 102

Documentation: No documentation available

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

2.1.63 test_league_model

Source Code Preview:

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

• Line: 12

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

2.1.64 test_serie_model Source Code Preview:

• Module: tests_models

 $\bullet \ \ File: / Users/bartoszkobylinski/Programming/Python/eppop_fast_api/tests/tests_models.py$

• Line: 38

Documentation: No documentation available

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

2.1.65 test_team_model Source Code Preview:

- Module: tests_models
- File: /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/tests/tests_models.py
- Line: 59

Documentation: No documentation available

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

2.1.66 run_migrations_offline Source Code Preview:

- 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.

```
"""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

Source Code Preview:

• 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.

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

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

2.2 Class

Source Code Preview:

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

• 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

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

 $\bullet \ \ File: / Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/database/models/player.$

• 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

• 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

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

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

2.3.2 all_players_list

Source Code Preview:

• Module: test_routers

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

• Line: 42

```
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 Source Code Preview:

• Module: test_routers

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

• Line: 53

Documentation: No documentation available

```
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 Source Code Preview:

• Module: test_routers

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

• Line: 68

Documentation: No documentation available

```
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 Source Code Preview:

• Module: test_routers

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

• Line: 211

2.3.6 match_players_stats Source Code Preview:

• Module: test_routers

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

• Line: 239

Documentation: No documentation available

```
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 Source Code Preview:

• Module: routers

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

• Line: 129

Documentation: No documentation available

```
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 Source Code Preview:

• Module: routers

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

• Line: 152

```
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 Source Code Preview:

• Module: routers

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

• Line: 312

Documentation: No documentation available

```
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 Source Code Preview:

• Module: routers

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

• Line: 360

Documentation: No documentation available

```
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

Source Code Preview:

• Module: routers

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

• Line: 393

```
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

Source Code Preview:

- Module: router
- File: /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api/cs2/router.py
- Line: 128

Documentation: No documentation available

```
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'
```

${\bf 2.3.13} \quad {\tt optimized_fetch_and_aggregate}$

Source Code Preview:

- Module: router
- File: /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api/cs2/router.py
- Line: 151

Documentation: No documentation available

```
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

Source Code Preview:

- Module: router
- File: /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/api/cs2/router.py
- Line: 311

```
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 Source Code Preview:

• Module: router

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

• Line: 358

Documentation: No documentation available

```
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 Source Code Preview:

• Module: router

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

• Line: 391

Documentation: No documentation available

```
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

Source Code Preview:

2.4.1 upcoming_matches

• Module: test_routers

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

Documentation: No documentation available

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

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

2.4.2 all_players_list

Source Code Preview:

• Module: test_routers

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

• Line: 42

Documentation: No documentation available

```
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 Source Code Preview:

• Module: test_routers

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

• Line: 211

Documentation: No documentation available

```
match_id: int = None,
    x_maps: int = Query(..., gt=0, description="Number of recent maps to consider
for statistics"),
    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

Source Code Preview:

- Module: test_routers
- File: /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/test_routers.py
- Line: 239

Documentation: No documentation available

```
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

Source Code Preview:

• Module: routers

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

• Line: 129

Documentation: No documentation available

```
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'
```

${\bf 2.4.6} \quad {\tt optimized_fetch_and_aggregate}$

Source Code Preview:

• Module: routers

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

• Line: 152

Documentation: No documentation available

```
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

Source Code Preview:

• Module: router

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

Documentation: No documentation available

```
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 Source Code Preview:

• Module: router

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

• Line: 151

Documentation: No documentation available

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

2.5 Post

Source Code Preview:

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

```
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

Source Code Preview:

- Module: routers
- File: /Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/routers.py
- Line: 312

Documentation: No documentation available

```
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 Source Code Preview:

• Module: routers

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

• Line: 360

Documentation: No documentation available

```
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 Source Code Preview:

• Module: routers

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

• Line: 393

Documentation: No documentation available

```
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

Source Code Preview:

• Module: router

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

Documentation: No documentation available

```
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 Source Code Preview:

• Module: router

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

• Line: 358

Documentation: No documentation available

```
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 Source Code Preview:

• Module: router

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

• Line: 391

Documentation: No documentation available

```
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

Source Code Preview:

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

```
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

Source Code Preview:

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

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

 $\bullet \ \ File: / Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/pydantic_models.py$

• 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

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

 $\bullet \ \ File: / Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/pydantic_models.py$

• **Line:** 140

Documentation: No documentation available

2.9.9 MatchResultBase

• Module: pydantic_models

 $\bullet \ \ File: \ / Users/bartoszkobylinski/Programming/Python/eppop_fast_api/app/pydantic_models.py$

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

• 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

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

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

2.11 Metadata

Source Code Preview:

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: 172

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

3.2 Main Diagram

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

```
17 skinparam class <<interface>>BackgroundColor #F1F8E9
18 skinparam class << interface >> BorderColor #8BC34A
19
20 left to right direction
22 package api_updater {
  class PlayerUpdater {
24
25 }
26
27 package test_routers {
  class MatchStatuses {
29
30 }
31
32 package league_base {
   class LeagueBase <<model>> {
34
35 }
37 package serie_base {
class SerieBase <<model>> {
39
40 }
42 package game_base {
class GameBase <<model>> {
    }
45 }
46
47 package player_base {
48 class PlayerBase <<model>> {
49
50 }
51
52 package player_stats_base {
  class PlayerStatsBase <<model>> {
54
55 }
57 package player_result_base {
class PlayerResultBase <<model>> {
59
60 }
61
62 package stream_base {
class StreamBase <<model>> {
65 }
67 package round_score_base {
class RoundScoreBase <<model>> {
69
70 }
71
72 package match_result_base {
   class MatchResultBase <<model>> {
74
75 }
77 package match_base {
   class MatchBase <<model>> {
79
80 }
81
82 package team_base {
```

```
class TeamBase <<model>> {
}

class TeamBase <<model>> {
}

package tournament_base {

class TournamentBase <<model>> {
}

package manager {
}

class DatabaseManager {
}

class DatabaseManager {
}

defermine the second of the second of
```

3.3 Additional Diagrams

PlantUML Source:

3.3.1 Sequence Diagram

```
1 @startuml
2 title upcoming_matches Request Flow
4 participant Client
5 participant Router
6 participant Endpoint
7 participant Service
8 participant Repository
9 participant Database
11 Client -> Router : HTTP Request
12 Router -> Endpoint : route()
13 Endpoint -> Service : process()
14 Service -> Repository : save()
15 Repository -> Database : execute()
16 Database --> Repository : result
17 Repository --> Service : data
18 Service --> Endpoint : response
19 Endpoint --> Router : HTTP Response
20 Router --> Client : JSON Response
21
22 @enduml
```

3.3.2 Component Diagram

```
1  @startuml
2 !include <C4/C4_Component>
3
4  title FastAPI Application Architecture
5
6  Container_Boundary(api, "API Layer") {
7     Component(router, "Routers", "FastAPI", "HTTP endpoint routing")
8     Component(middleware, "Middleware", "FastAPI", "Request/response processing")
9  }
10
11  Container_Boundary(service, "Service Layer") {
12     Component(services, "Services", "Python", "Business logic")
13     Component(deps, "Dependencies", "FastAPI", "Dependency injection")
14 }
```

```
16 Container_Boundary(data, "Data Layer") {
    Component (models, "Models", "Pydantic", "Data validation")
17
    Component (repo, "Repositories", "Python", "Data access")
18
19 }
  Container_Boundary(external, "External") {
   Component(db, "Database", "Database", "Data storage")
21
    Component (confluence, "Confluence", "Atlassian", "Documentation")
23
24 }
26 Rel(router, services, "calls")
27 Rel(services, models, "validates")
28 Rel(services, repo, "queries")
29 Rel(repo, db, "persists")
  Rel(services, confluence, "publishes")
32 Qenduml
```

4 Coverage Analysis

4.1 Function Coverage

67 total items, 15 documented (22.4%).

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.