Test Raporu

Test Raporu - 2025-12-17 21:48:42

```css
* { margin: 0; padding: 0; box-sizing: border-box; }
body {
font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
line-height: 1.6;
color: #333;
background-color: #f5f5f5;
padding: 20px;
}
.container {
max-width: 1200px;
margin: 0 auto;
background: white;
padding: 30px;
box-shadow: 0 0 20px rgba(0,0,0,0.1);
}
.header {
background: linear-gradient(135deg, #667eea 0%, #764ba2 100%);
color: white;
padding: 30px;
border-radius: 10px;
margin-bottom: 30px;
}
.header h1 {
font-size: 2.5em;
margin-bottom: 10px;
}
.header p {
font-size: 1.1em;
opacity: 0.9;
}
.stats-grid {
```

```css
display: grid;

grid-template-columns: repeat(auto-fit, minmax(200px, 1fr));

gap: 20px;

margin: 30px 0;

}

.stat-box {

padding: 20px;

border-radius: 10px;

text-align: center;

box-shadow: 0 4px 6px rgba(0,0,0,0.1);

}

.stat-box.success {

background: linear-gradient(135deg, #667eea 0%, #764ba2 100%);

color: white;

}

.stat-box.failure {

background: linear-gradient(135deg, #f093fb 0%, #f5576c 100%);

color: white;

}

.stat-box.info {

background: linear-gradient(135deg, #4facfe 0%, #00f2fe 100%);

color: white;

}

.stat-box h3 {

font-size: 1.2em;

margin-bottom: 10px;

}

.stat-box .value {

font-size: 2.5em;

font-weight: bold;

margin: 10px 0;

}

.section {

margin: 40px 0;

}

.section-title {
```

```css
font-size: 1.8em;
color: #667eea;
margin-bottom: 20px;
padding-bottom: 10px;
border-bottom: 3px solid #667eea;
}
table {
width: 100%;
border-collapse: collapse;
margin: 20px 0;
box-shadow: 0 2px 4px rgba(0,0,0,0.1);
}
th, td {
padding: 12px;
text-align: left;
border-bottom: 1px solid #ddd;
}
th {
background: linear-gradient(135deg, #667eea 0%, #764ba2 100%);
color: white;
font-weight: 600;
}
tr:hover {
background-color: #f5f5f5;
}
.failed {
background-color: #fee;
}
.passed {
background-color: #efe;
}
@media print {
body {
background: white;
padding: 0;
```

```css
      }
      .container {
        box-shadow: none;
        padding: 0;
      }
      .section {
        page-break-inside: avoid;
      }
    }
```

■Ÿ§ª Test Raporu

OluÅŸturulma ZamanÄ±: 2025-12-17 21:48:42

âœ… BaÅŸarÄ±lÄ±

136

88.31%

â■Œ BaÅŸarÄ±sÄ±z

18

11.69%

■Ÿ"Š Toplam

154

SÃ¼re: 14.02s

■Ÿ"Š Genel Ä°statistikler

Metrik

DeÄŸer

YÃ¼zde

âœ… BaÅŸarÄ±lÄ± Testler

136

88.31%

â■Œ BaÅŸarÄ±sÄ±z Testler

18

11.69%

âš ï¸■ Hatalar

0

-

â■ï¸■ Atlanan Testler

0

-

📊 Toplam Test

154

100%

⏱️ Çalıştırma Süresi

14.02 saniye

-

📈 Coverage

67%

-

📋 Test Dosyaları Detaylı Özeti

✅ app/test/unit/test_data_model.py

DataModel - Alternatif model katmani testleri

Toplam Test: 3 | Başarılı: 0 | Başarısız: 3 | Hatalar: 0 | Atlanan: 0 | Başarı Oranı: 0%

❌ Başarısız Testler (3)

- model caching - AssertionError: False is not true

Hata: Bilinmeyen hata

- predict future valid inputs - AssertionError: False is not true

Hata: Bilinmeyen hata

- train model valid country - AssertionError: False is not true

Hata: Bilinmeyen hata

✅ app/test/unit/test_data_service.py

DataService - Veri yukleme, isleme ve model egitimi testleri

Toplam Test: 3 | Başarılı: 0 | Başarısız: 3 | Hatalar: 0 | Atlanan: 0 | Başarı Oranı: 0%

❌ Başarısız Testler (3)

- get countries empty data - Exception: Veri yüklenirken hata oluştu: CSV dosyası boş veya doğru yüklenemedi.

Hata: Bilinmeyen hata

- get data overview empty data - Exception: Veri yüklenirken hata oluştu: CSV dosyası boş veya doğru yüklenemedi.

Hata: Bilinmeyen hata

- predict future invalid year - AssertionError: ValueError not raised

Hata: Bilinmeyen hata

✅ app/test/unit/test_data_service_boundary.py

DataService - Veri yukleme, isleme ve model egitimi testleri

Toplam Test: 3 | BaÅŸarÄ±lÄ±: 0 | BaÅŸarÄ±sÄ±z: 3 | Hatalar: 0 | Atlanan: 0 | BaÅŸarÄ± OranÄ±: 0%

â■Œ BaÅŸarÄ±sÄ±z Testler (3)

- train model with minimum data - ValueError: All arrays must be of the same length

Hata: Bilinmeyen hata

- predict future with string year - AssertionError: (<class 'ValueError'>, <class 'TypeError'>) not raised

Hata: Bilinmeyen hata

- load data with all nan values - Exception: Veri ön i■leme s■ras■nda hata olu■tu: Veri uzun formata dönü■türülürken hata: Veri dönü■ümü sonras■ veri seti bo■

Hata: Bilinmeyen hata

â■Œ app/test/unit/test_data_utils.py

DataUtils - Yardimci fonksiyon testleri

Toplam Test: 1 | BaÅŸarÄ±lÄ±: 0 | BaÅŸarÄ±sÄ±z: 1 | Hatalar: 0 | Atlanan: 0 | BaÅŸarÄ± OranÄ±: 0%

â■Œ BaÅŸarÄ±sÄ±z Testler (1)

- zero initial value - AssertionError: 250.0 != 0.0

Hata: Bilinmeyen hata

â■Œ app/test/unit/test_data_viewmodel.py

DataViewModel - Veri formatlama ve API hazirlama testleri

Toplam Test: 6 | BaÅŸarÄ±lÄ±: 0 | BaÅŸarÄ±sÄ±z: 6 | Hatalar: 0 | Atlanan: 0 | BaÅŸarÄ± OranÄ±: 0%

â■Œ BaÅŸarÄ±sÄ±z Testler (6)

- get countries comparison - AssertionError: False is not true

Hata: Bilinmeyen hata

- get country data - AssertionError: 'stats' not found in {'success': True, 'country': 'Turkey', 'statistics': {'min': 10.5, 'max': 30.2, 'mean': 20.1, 'median': 19.8, 'std': 5.2, 'last value': 29.8, 'trend': 15.3}, 'chart data': {'labels': [2000, 2005, 2010, 2015, 2020], 'datasets': [{'label': 'Yenilenebilir Enerji Tüketimi (%)', 'data': [15.2, 18.7, 22.4, 26.3, 29.8], 'borderColor': 'rgba(75, 192, 192, 1)', 'backgroundColor': 'rgba(75, 192, 192, 0.2)', 'fill': True}]}, 'years': [2000, 2005, 2010, 2015, 2020], 'values': [15.2, 18.7, 22.4, 26.3, 29.8]}

Hata: Bilinmeyen hata

- get country data negative trend - KeyError: 'stats'

Hata: Bilinmeyen hata

- get country prediction - AssertionError: False is not true

Hata: Bilinmeyen hata

- get data overview - AssertionError: 'highest chart' not found in {'success': True, 'overview': {'highest countries': [{'country': 'Iceland', 'value': 78.5}, {'country': 'Norway', 'value': 69.2}], 'lowest countries': [{'country': 'Qatar', 'value': 0.2}, {'country': 'Kuwait', 'value': 0.5}], 'global stats': {'min': 0.1, 'max': 98.5, 'mean': 18.3, 'median': 15.2, 'std': 20.1, 'total countries': 180, 'years range': '1995-2020'}, 'global trend': 5.6}}

Hata: Bilinmeyen hata

- get feature importance error - AssertionError: True is not false

Hata: Bilinmeyen hata

â■Œ app/test/unit/test_data_model.py

DataModel - Alternatif model katmani testleri

Toplam Test: 23 | BaÅŸarÄ±lÄ±: 19 | BaÅŸarÄ±sÄ±z: 4 | Hatalar: 0 | Atlanan: 0 | BaÅŸarÄ± OranÄ±: 82.6%

âœ… BaÅŸarÄ±lÄ± Testler (19)

Kategori: Bilgi Getirme

+ get countries empty data + get countries returns list + get country data invalid country + get country data valid country + init with valid csv path + init without csv path + load data success

Kategori: Genel

+ compare countries empty list + compare countries valid countries + get feature importance global + get feature importance valid country + get model metrics global + get overview data structure + get top countries highest + get top countries lowest + melt data conversion

Kategori: Model Islemleri

+ predict future without training + train model insufficient data + train model invalid country

â■Œ BaÅŸarÄ±sÄ±z Testler (4)

- get model metrics valid country

Hata: Bilinmeyen hata

- model caching

Hata: Bilinmeyen hata

- predict future valid inputs

Hata: Bilinmeyen hata

- train model valid country

Hata: Bilinmeyen hata

â■Œ app/test/unit/test_data_service.py

DataService - Veri yukleme, isleme ve model egitimi testleri

Toplam Test: 36 | BaÅŸarÄ±lÄ±: 33 | BaÅŸarÄ±sÄ±z: 3 | Hatalar: 0 | Atlanan: 0 | BaÅŸarÄ± OranÄ±: 91.7%

âœ… BaÅŸarÄ±lÄ± Testler (33)

Kategori: Bilgi Getirme

+ get countries comparison insufficient countries + get countries comparison invalid country + get countries comparison valid countries + get countries returns list + get country data invalid country + get country data stats structure + get country data valid country + init with valid csv path + init without csv path

Kategori: Genel

+ cached prediction + data loading handles encoding errors + data preprocessing handles missing values + get cached prediction existing + get cached prediction nonexistent + get data overview

structure + get feature importance global + get feature importance valid country + get model metrics valid country + get model metrics without training + single country data + single year data + very large values

Kategori: Hesaplama

+ calculate global trend with empty data + calculate global trend with single year + calculate trend negative trend + calculate trend positive trend + calculate trend single data point + calculate trend zero initial value

Kategori: Model Islemleri

+ predict future invalid country + predict future valid inputs + train model general + train model invalid country + train model valid country

â■Œ BaÅŸarÄ±sÄ±z Testler (3)

- get countries empty data

Hata: Bilinmeyen hata

- get data overview empty data

Hata: Bilinmeyen hata

- predict future invalid year

Hata: Bilinmeyen hata

â■Œ app/test/unit/test_data_service_boundary.py

DataService - Veri yukleme, isleme ve model egitimi testleri

Toplam Test: 23 | BaÅŸarÄ±lÄ±: 20 | BaÅŸarÄ±sÄ±z: 3 | Hatalar: 0 | Atlanan: 0 | BaÅŸarÄ± OranÄ±: 87%

âœ… BaÅŸarÄ±lÄ± Testler (20)

Kategori: Bilgi Getirme

+ get country data with max countries + get country data with single data point + get countries comparison with duplicate countries + get countries comparison with empty list + get countries comparison with single country + get country data with empty string + get country data with none + get country data with whitespace + load data with missing country column + load data with negative values + load data with special characters in country name + load data with very large numbers

Kategori: Genel

+ get feature importance with invalid country + get model metrics with invalid country

Kategori: Model Islemleri

+ predict future with max year + predict future with min year + predict future with negative year + predict future with past year + predict future with zero year + train model with empty string country

â■Œ BaÅŸarÄ±sÄ±z Testler (3)

- train model with minimum data

Hata: Bilinmeyen hata

- predict future with string year

Hata: Bilinmeyen hata

- load data with all nan values

Hata: Bilinmeyen hata

■Œ app/test/unit/test_data_utils.py

DataUtils - Yardimci fonksiyon testleri

Toplam Test: 30 | BaÅŸarÄ±lÄ±: 29 | BaÅŸarÄ±sÄ±z: 1 | Hatalar: 0 | Atlanan: 0 | BaÅŸarÄ± OranÄ±: 96.7%

âœ… BaÅŸarÄ±lÄ± Testler (29)

Kategori: Bilgi Getirme

+ load existing file + load invalid json + load nonexistent file

Kategori: Genel

+ insufficient data + positive trend + no missing years + single data point + with missing years + custom decimal places + positive percentage + zero percentage + large palette + single color + small palette + zero colors + neutral trend + positive trend + slight negative trend + slight positive trend + very negative trend + very positive trend

Kategori: Hata Yonetimi

+ empty list + negative trend + empty data + negative percentage + negative trend

Kategori: Veri Islemleri

+ save complex data + save invalid path + save simple data

■Œ BaÅŸarÄ±sÄ±z Testler (1)

- zero initial value

Hata: Bilinmeyen hata

■Œ app/test/unit/test_data_viewmodel.py

DataViewModel - Veri formatlama ve API hazirlama testleri

Toplam Test: 25 | BaÅŸarÄ±lÄ±: 18 | BaÅŸarÄ±sÄ±z: 7 | Hatalar: 0 | Atlanan: 0 | BaÅŸarÄ± OranÄ±: 72%

âœ… BaÅŸarÄ±lÄ± Testler (18)

Kategori: Bilgi Getirme

+ get countries + get countries comparison error + get countries error + get country data chart data structure + get country data error + get country data nan handling + get country prediction country not found + get country prediction future year validation

Kategori: Genel

+ get data overview error + get data overview structure + get feature importance global + get feature importance valid country + get model metrics structure + viewmodel initialization with service + viewmodel initialization without service

Kategori: Model Islemleri

+ train model error + train model general + train model valid country

■Œ BaÅŸarÄ±sÄ±z Testler (7)

- get countries comparison

Hata: Bilinmeyen hata

- get country data

Hata: Bilinmeyen hata

- get country data negative trend

Hata: Bilinmeyen hata

- get country prediction

Hata: Bilinmeyen hata

- get data overview

Hata: Bilinmeyen hata

- get feature importance error

Hata: Bilinmeyen hata

- get model metrics

Hata: Bilinmeyen hata

âœ… app/test/unit/test_data_viewmodel_boundary.py

DataViewModel - Veri formatlama ve API hazirlama testleri

Toplam Test: 17 | BaÅŸarÄ±lÄ±: 17 | BaÅŸarÄ±sÄ±z: 0 | Hatalar: 0 | Atlanan: 0 | BaÅŸarÄ± OranÄ±: 100%

âœ… BaÅŸarÄ±lÄ± Testler (17)

Kategori: Bilgi Getirme

+ get country data with empty time series + get country data with single data point + get country prediction with max year + get country prediction with min year + get countries comparison with empty list + get countries comparison with none list + get countries with service error + get country data with empty string + get country data with none country name + get country prediction with invalid year type + get country prediction with negative year + get country data with inf values + get country data with nan values

Kategori: Genel

+ get model metrics with service error + get data overview with empty data + get feature importance with empty features

Kategori: Model Islemleri

+ train model with service error

â■Œ FAILED app/test/unit/test_data_model.py

DataModel - Alternatif model katmani testleri

Toplam Test: 1 | BaÅŸarÄ±lÄ±: 0 | BaÅŸarÄ±sÄ±z: 1 | Hatalar: 0 | Atlanan: 0 | BaÅŸarÄ± OranÄ±: 0%

â■Œ BaÅŸarÄ±sÄ±z Testler (1)

- get model metrics valid country - AssertionError: False is not true

Hata: Bilinmeyen hata