



# Product Requirements and Specification Document

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## Project Name

MediaPulse - Entertainment Content Trends

## Description

MediaPulse is a Power BI dashboard designed to analyze and visualize trends in media content consumption. The dashboard will provide insights into most-watched genres, viewer demographics, and content popularity using imported datasets and DAX measures. The solution targets business and educational stakeholders seeking actionable analytics on entertainment content trends.

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## 1. Objectives

Objective	Description
Trend Analysis	Identify most-watched genres and content types
Demographic Insights	Analyze viewer demographics (age, gender, location)
Content Popularity	Visualize top-performing content over time
User-Friendly Dashboard	Enable intuitive exploration and filtering of data

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## 2. Stakeholders

Role	Responsibility
Product Owner	Define requirements, approve deliverables
BI Developer	Implement dashboard, DAX, data import
Data Analyst	Validate data, support metric design
End Users	Consume insights, provide feedback

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## 3. Functional Requirements

ID	Requirement
FR1	Import media consumption data (CSV/Excel/Database)
FR2	Display most-watched genres (bar/column chart)
FR3	Show viewer demographics (age, gender, location) (pie/donut/map visuals)
FR4	Visualize content popularity trends over time (line chart)
FR5	Enable filtering by date range, genre, and demographic attributes



FR6	Calculate key metrics using DAX (e.g., total views, average watch time)
FR7	Export dashboard visuals to PDF or image

#### 4. Non-Functional Requirements

ID	Requirement
NFR1	Dashboard loads within 5 seconds
NFR2	Data refresh supported (manual/automatic)
NFR3	Responsive layout for desktop and tablet
NFR4	Adheres to Power BI accessibility standards

#### 5. Data Requirements

Data Element	Description
Content ID	Unique identifier for media content
Genre	Content genre/category
Viewer ID	Unique identifier for viewer
Age	Viewer age group
Gender	Viewer gender
Location	Viewer location (city/country)
Watch Date/Time	Timestamp of content consumption
Watch Duration	Time spent watching

#### 6. DAX Measures (Sample)

```
-- Total Views
Total Views = COUNTROWS('ViewData')

-- Average Watch Time
Avg Watch Time = AVERAGE('ViewData'[Watch Duration])

-- Views by Genre
Views by Genre = CALCULATE([Total Views], ALLEXCEPT('ViewData', 'ViewData'[Genre]))
```

#### 7. Dashboard Layout

Section	Visual Type	Description
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Genre Popularity	Bar/Column Chart	Top genres by total views
Demographics Overview	Pie/Donut/Map	Viewer age, gender, location
Content Trends	Line Chart	Views over time
Filters	Slicers	Date, genre, demographics
Key Metrics	Cards	Total views, avg watch time

## 8. User Stories

ID	As a...	I want to...	So that...
US1	Business User	See most-watched genres	I can inform content strategy
US2	Educator	Analyze viewer demographics	I can tailor educational content
US3	Analyst	Export visuals	I can include them in reports

## 9. Acceptance Criteria

- Data imports successfully and updates as required
- Dashboard displays all specified visuals and metrics
- Filters work as intended across all visuals
- DAX measures return accurate results
- Dashboard is responsive and accessible

## 10. Out of Scope

- Real-time streaming data integration
- Predictive analytics or machine learning features
- Mobile app optimization

## 11. Timeline & Milestones

Milestone	Target Date
Data Model Design	Week 1
DAX Measures Complete	Week 2
Dashboard Build	Week 3
User Testing & Feedback	Week 4
Final Delivery	Week 5

## 12. Risks & Mitigations



Risk	Mitigation
Incomplete data	Use sample/mock data for demo
Data privacy concerns	Anonymize viewer data
Power BI feature limitations	Adjust visuals as needed

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## 13. Appendix

- Sample data schema
  - Power BI documentation links
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**End of Document**