Product Business Requirements

1. Business Requirements

Ecosystem Participants	Role/Interest	Requirements
Clients	Journalists, governments, social media platforms	Real-time detection for time-sensitive workflows.API integration for automated content moderation.
Suppliers	Cloud providers	Scalable infrastructure for AI processing.Cost-effective data storage.
Partners	Fact-checking agencies	Access to labeled datasets for model training. Collaborative misinformation reports.
Internal Functions	R&D, Legal, Marketing teams	- Compliance with AI regulations (e.g., DEFEND Act) Clear ROI metrics for investor updates.

2. Stakeholder Requirements

Stakeholder	Needs	Pain Points
Journalists	Verify news authenticity before publishing	Time-consuming manual checks; risk of spreading misinformation
Governments	Detect fraudulent media for national security	High-stakes consequences of deepfake-driven misinformation (e.g., election interference)
Social Media Platforms	Automatically flag deepfakes in user uploads	Regulatory pressure to combat misinformation; reputational damage from viral fakes
General Public	Simple, accessible tool to verify content	Distrust in digital content; lack of technical expertise to identify deepfakes

3. Solution Requirements

Functional Requirements

- 1. The product shall, upon viewing a media type, run analysis and report to the user whether that video is authentic or altered in a clear window on the screen
- 2. If the media is determined to be product shall explain to the user why altered media was flagged and the detection type which was used
- 3. Ability to detect altered media across all media types and provide detection in real-time
- 4. Flags altered media to clearly notify the user that the media is not in its original form
- 5. Integrated or embedded within content platforms for seamless interaction (ie. chrome extension or integrated into a social media app)
- 6. Ability to collect customer feedback for algorithm improvement and product improvement

Non-Functional Requirements

- 1. The software shall function with reasonable accuracy (let's say 95% correct???)
- 2. The software shall run its analysis of a media within a reasonable time dependent on media type (this is likely more complicated depending on length?)
 - a. 10 seconds per 150 words of opening a text
 - b. 20 seconds of opening a photo (size limits?)
 - c. 15 seconds per 60 seconds of opening an audio file
 - d. 30 seconds per 60 seconds of opening a video
- 3. The software should be compatible with multiple content platforms
 - a. Major web browsers as an extension
 - b. Social media applications (through collaboration with developers?)
 - c. As a web browser where media can be uploaded and analyzed
 - d. As a standalone application where media can be downloaded and analyzed

Phase	Requirements	Examples for MythBuster.Al
Deployment	Infrastructure setup, data migration, and initial user onboarding.	Cloud configuration.Import labeled deepfake datasets.
Operation	Tools for monitoring performance and handling real-time issues.	- 24/7 uptime dashboards.- API rate-limiting for social media platforms.
Maintenance	Regular updates to address evolving deepfake techniques and user feedback.	Monthly model retraining. Bug-fix sprints based on journalist reports.
Decommissioning	Secure data disposal and user notification if services are sunset.	- Anonymize stored metadata 90-day advance notice to enterprise clients.

4. Transition Requirements