

Knowledge
for All
Inclusive
Da'wah
Stronger
Ummah

Development of a Visually Impaired-Friendly Friday Sermon E-Book:

An Accessible and Inclusive Innovation
in Islamic Da'wah

-  Accessible Content
-  Equal Access
-  Inclusive Da'wah
-  Screen Reader Friendly
-  Empowering Visually impaired Muslims



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Digital Technology Expands Access, Enriches Da'wah

Towards Inclusive Digital Content for Visually Impaired Muslims

1 Digital Technology Transforms Our Lives

Smartphones and computers are no longer just communication tools, but have become essential instruments for education, employment, social interaction, religious learning, and creative activities.



2 Screen Reader Empowers Blind Users

TalkBack on Android provides spoken feedback, allowing blind users to navigate menus, read text, use applications, and access digital services independently.



3 Access to Diverse Information

Through digital devices, blind users can read books, articles, messages, social media content, educational materials, and religious texts.



Accessible Digital Content

- ✓ Clear structure
- ✓ Text-based format
- ✓ Easy navigation
- ✓ Screen-reader friendly
- ✓ Appropriate format



E-Book Friday Sermons Accessible for Acreen Readers



An Accessible E-Book for Friday Sermons

An Innovation to Support Inclusive Digital Da'wah and Empower Visually Impaired Muslims

- Education
- Employment
- Social Interaction
- Religious Learning
- Creative Activities

4 Ongoing Challenges

Many digital contents are still inaccessible for blind users, such as:

- ✗ Images without alternative text
- ✗ Complicated tables and unclear layouts
- ✗ Too many decorative elements
- ✗ Unclear document structure
- ✗ Inappropriate fonts
- ✗ Slow screen readers and pop-ups



5 Rights and Legal Foundations

Persons with disabilities have the right to equal access to information and communication technologies:



- **UNCRPD Article 9 & 21**
Access to information and communication technologies must be accessible.
- **Indonesian Law No. 8 of 2016**
Recognizes accessibility and reasonable accommodation as part of disability rights.

6 Islamic Perspective



"Invite to the way of your Lord with wisdom and good instruction..."
(Qur'an, An-Nahl [16]: 125)

Islamic history shows that Ibn Umm Maktum, who was blind, was entrusted with the call to prayer, proving that visual impairment does not prevent active participation in religious service.

7 Opportunities and Innovation



Many blind Muslims have religious knowledge, public-speaking skills, and digital literacy. Developing accessible e-books for Friday sermons is a relevant innovation to support their active role in da'wah.

RESEARCH METHOD

Development of an Accessible E-Book for Friday Sermons for Blind Muslims



1 Research Design

This study employed a Research and Development (R&D) approach to develop, test, revise, and evaluate an accessible e-book for Friday sermons. R&D is appropriate because the objective is to produce a product, not merely describe an existing phenomenon (Richey & Klein).



2 Development Stages

The development process consisted of six stages:



3 Research Participants



30
Blind Respondents

Brilliant Study Club



Selection Criteria:

- ✓ Visual impairment
- ✓ Regular use of smartphone/computer
- ✓ Experience with screen readers
- ✓ Ability to read digital text independently
- ✓ Willingness to evaluate the prototype

4 Product Design Principles



Accessible Text Format



Simple and Clear Layout



Readable Typography



Easy Navigation



Compatible with Screen Readers



Logical Document Structure



Minimal Visual Barriers



User-Friendly and Practical

5 Data Collection

Data were collected using multiple techniques:



Questionnaire
Five dimensions:
text format, layout,
typography, navigation,
and overall usability.



Semi-structured Interview



Observation of screen-reader navigation



Accessibility Testing



Usability Evaluation

6 Data Analysis

1. Descriptive Analysis (Questionnaire)

Percentage was calculated using:

$$P = (f / N) \times 100\%$$

P = percentage

f = number of respondents selecting an option

N = total respondents

2. Feasibility Testing

The average score was converted into a percentage:

$$\text{Feasibility} = (\text{obtained score} / \text{maximum score}) \times 100\%$$

Interpretation criteria:

81–100%
Very feasible

61–80%
Feasible

41–60%
Moderately feasible

21–40%
Less feasible

0–20%
Not feasible

Note: The numerical dataset in this draft is simulated and should be replaced by verified field data before formal publication.

RESULTS AND DISCUSSION

Development of an Accessible E-Book for Friday Sermons for Blind Muslims

“ Accessible content empowers blind Muslims to learn, preach, and serve the community independently.”

1 Needs Analysis

Digital reading preferences of 30 blind respondents (N = 30)

Accessibility aspect	Respondents	Percentage
Prefer single-column text	29	96.7%
Prefer text without tables	30	100%
Prefer text without decorative images	28	93.3%
Aa Consider Arial easy to access	27	90.0%
Consider KPGQPC Uthman Taha Naskh suitable for Arabic text	26	86.7%
Use TalkBack as primary screen reader	24	80.0%
Access digital materials primarily via smartphone	28	93.3%
Prefer clearly separated headings	29	96.7%

Table 1. Digital Reading Preferences of Respondents (N = 30).
Note: The data are simulated and intended only as a research-development simulation.

2 Development of the Prototype

The e-book was designed based on user needs and organized with a consistent structure:

- 1 Cover
- 2 Instructions for use
- 3 Table of contents
- 4 Sermon title
- 5 First khutbah
- 6 Second khutbah
- 7 References

3 Accessibility Features

Single-column text	No tables	No decorative images	Aa Simple fonts (Arial)
KPGQPC Uthman Taha Naskh for Arabic text	Clear headings and structure	Compatible with TalkBack	Easy navigation

4 Accessibility Testing

Evaluation dimension	Mean score	Feasibility
Screen-reader accessibility	3.78 / 4.00	94.5%
Text readability	3.70 / 4.00	92.5%
Navigation	3.67 / 4.00	91.8%
Arabic text accessibility	3.64 / 4.00	91.0%
Content suitability	3.80 / 4.00	95.0%
Practicality for khatib	3.83 / 4.00	95.8%
Overall	3.74 / 4.00	93.4%

Table 2. Feasibility test results.

Very Feasible

6 User Responses



“I can read and understand Friday sermons independently without asking for assistance.”



“The structure is clear and easy to navigate with TalkBack.”



“This e-book helps me prepare and deliver sermons with more confidence.”

5 Discussion: Accessibility as a New Dimension of Digital Da'wah



Structural simplicity enables better access for screen-reader users.



Accessible digital content supports independent learning and da'wah.



The e-book empowers blind khatibs to prepare and deliver Friday sermons independently.



Accessibility is a new dimension of digital da'wah, expanding inclusive religious communication.

7 The E-Book and the Empowerment of Blind Khatibs



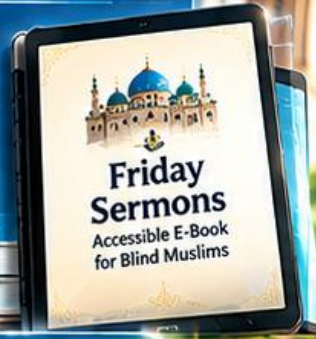
With accessible digital materials, blind Muslims can prepare, store, and read Friday sermons using a screen reader, supporting their active participation in religious service, just as Ibn Umm Maktum was entrusted with the adhan.

CONCLUSION

An Accessible E-Book for Friday Sermons Empowering Visually Impaired Muslims

1 What We Developed

A prototype of a visually impaired-friendly Friday sermon e-book using a Research and Development (R&D) approach.



2 Why It Matters

Technological advances enable blind users to access digital information independently through smartphones and screen readers such as TalkBack.



Accessible Religious Knowledge,
Stronger and More Inclusive Muslim Communities

3 Key Finding

Digital independence can be undermined when information is presented in inaccessible formats, such as:



Complex tables



Images without alternative text



Decorative elements



Inappropriate fonts



Unclear document structure



Multiple columns

4 Main Implication

Accessibility should be an integral part of contemporary Islamic da'wah.

Digital da'wah should not merely migrate religious content from printed to electronic media; it should also ensure that the transformation does not create new barriers for persons with disabilities.



Inclusive Da'wah



Equal Access



No New Barriers



Greater Impact

5 Future Research

Future research should:



Involve larger samples



Use actual usability measurements



Compare PDF and EPUB formats



Test across different screen readers



Conduct longitudinal evaluation with blind khatibs in real Friday sermon settings

"Making digital da'wah accessible today builds a more **inclusive** and **empowered** ummah tomorrow."

Knowledge
for a More
Inclusive
Ummah

Thank You

to All Esteemed Judges

We would like to express our sincere gratitude to all the judges for your valuable time, insightful questions, and constructive feedback during our presentation.



Your Attention
Inspires Us



Your Advice
Enriches Us



Your Feedback
Helps Us Grow



Your Support
Strengthens
Our Efforts

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