

Software Requirements Specification

Project Name: Smart Note

1.0

2025 11 5

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1

1.1

Smart Note

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1.2

Smart Note

Markdown

1.3

SRS	Software Requirements Specification
Markdown	
WYSIWYG	What You See Is What You Get
MIME	Multipurpose Internet Mail Extensions
UI	User Interface
API	Application Programming Interface
SQLite	
ContentProvider	Android

1.4

1. IEEE Std 830-1998, IEEE Recommended Practice for Software Requirements Specifications
2. GB/T 9385-2008
3. (MiCode Notes) <https://github.com/MiCode/Notes>

-
4. Android https://developer.android.com/
 5. Markdown https://commonmark.org/

2

2.1

Markdown

2.2

2.2.1

- 1.
- 2.
- 3.
4. Google Tasks
- 5.
- 6.
- 7.

2.2.2

1. **Markdown** Markdown /
2. Markdown HTML

2.3

-
-
-
-

2.4

- ARMv7
 - 512MB RAM
 - 50MB
 - 480×800
-
- Android 4.0 API Level 14
 - SQLite 3.0
 - Android Support Library Markwon Markdown

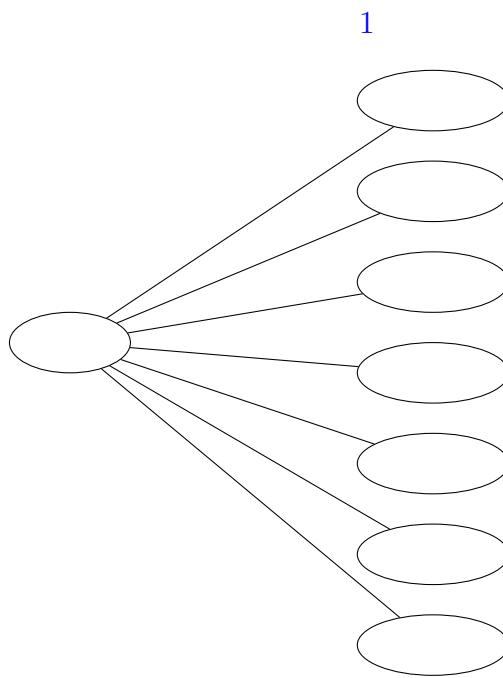
2.5

- Java
 - Android 4.0
 - Android
 -
 - 20MB
-
- Google Play Services
 - Android
 - Markdown Markdown
 -

3

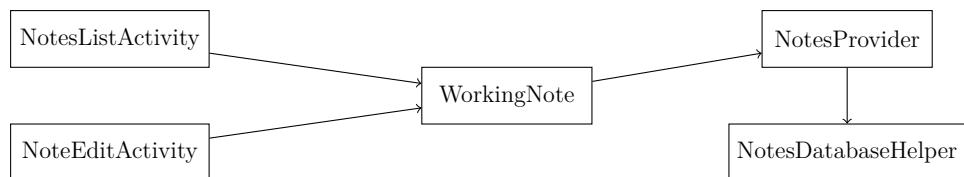
3.1

3.1.1



1:

2



2:

3.1.2 1 Markdown

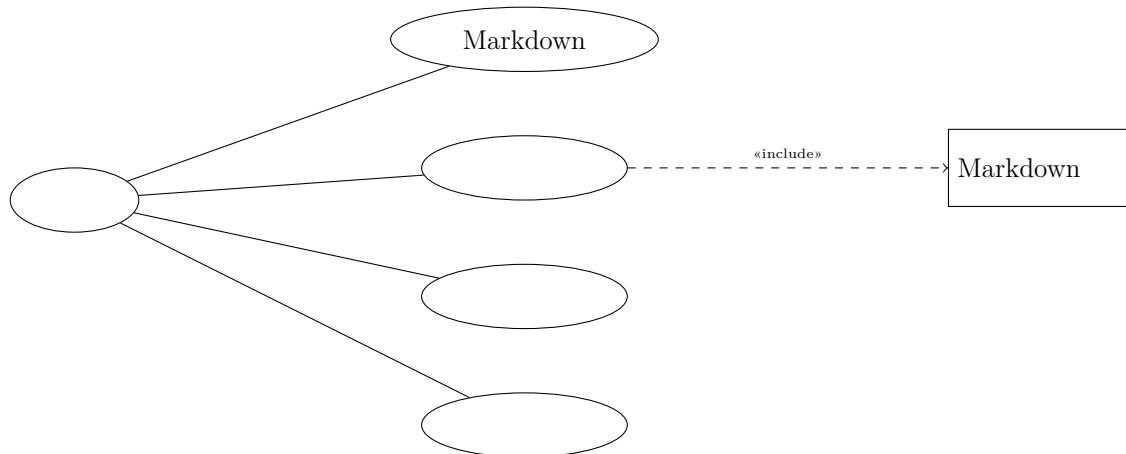
Markdown

Markdown

- Markdown
-

-
- - Markdown
 - - 1. Markdown
 - 2. " "
 - 3. Markdown
 - 4.
 - 5. " "
 - 6.
 - 7. Markdown
 -
 - 3a. Markdown

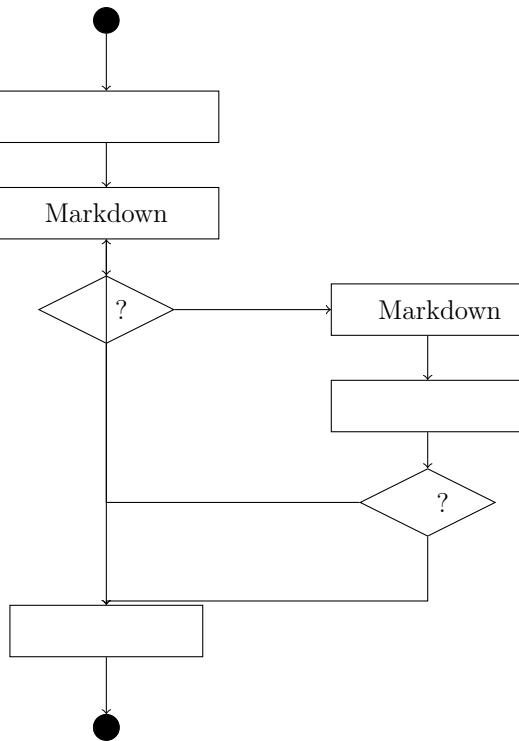
3 Markdown



3: Markdown

- 4 Markdown
- 5 Markdown
- 6
- 7 Markdown

- Markdown 500ms 10000
- 200ms



4: Markdown

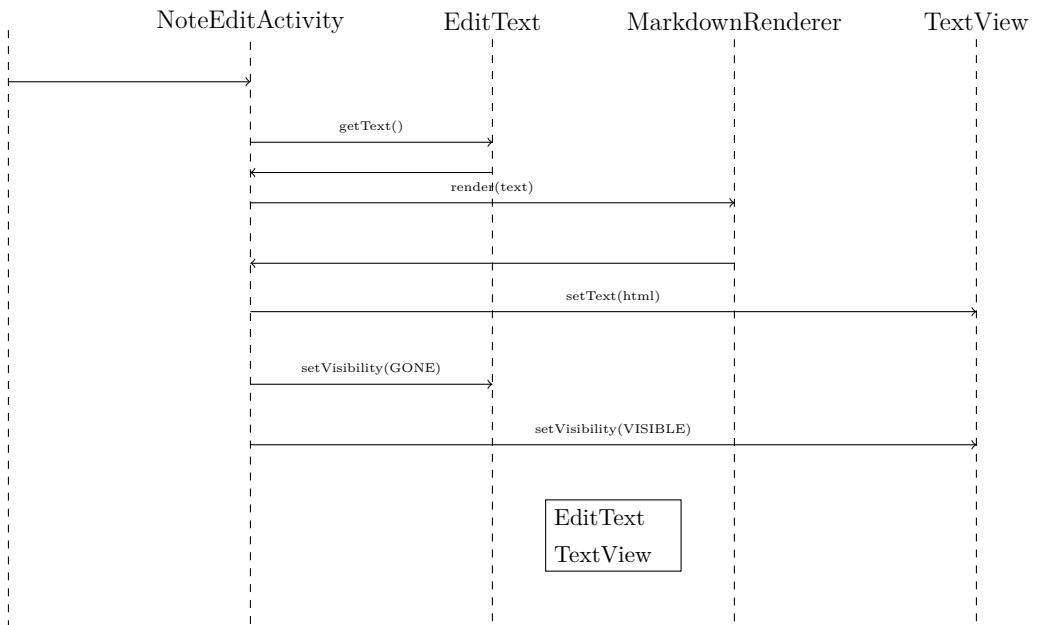
- Markdown data content
- MIME_TYPE "text/note"
- HTML

3.1.3 2

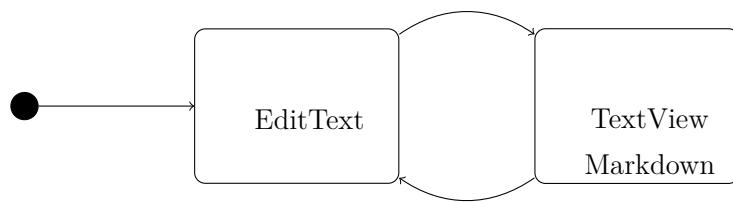
Markdown HTML Android

-
-
-
-
-

1.



5: Markdown



6:

2. /Markdown/HTML

3.

4.

5. Android Intent

6.

7.

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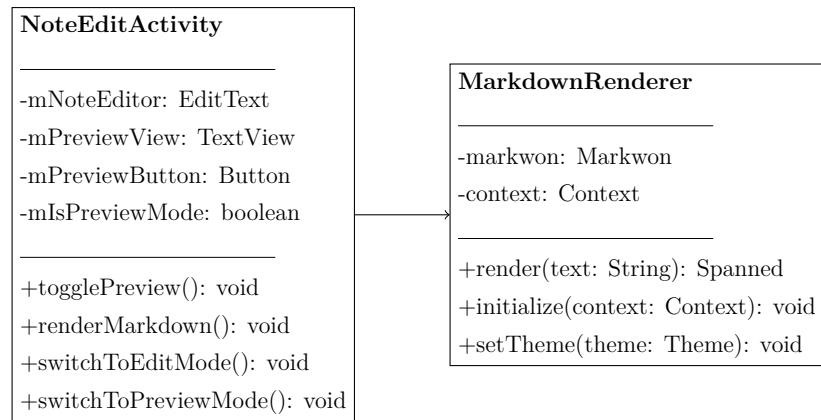
4a. HTML Markdown HTML CSS

6a.

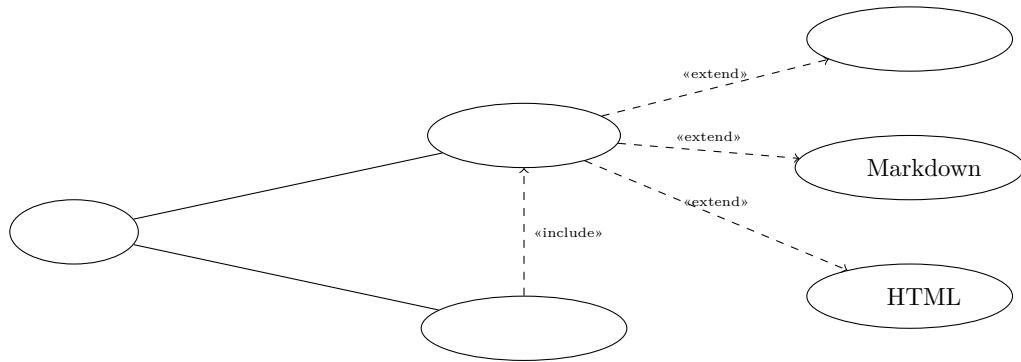
8

9

10 HTML



7: Markdown



8:

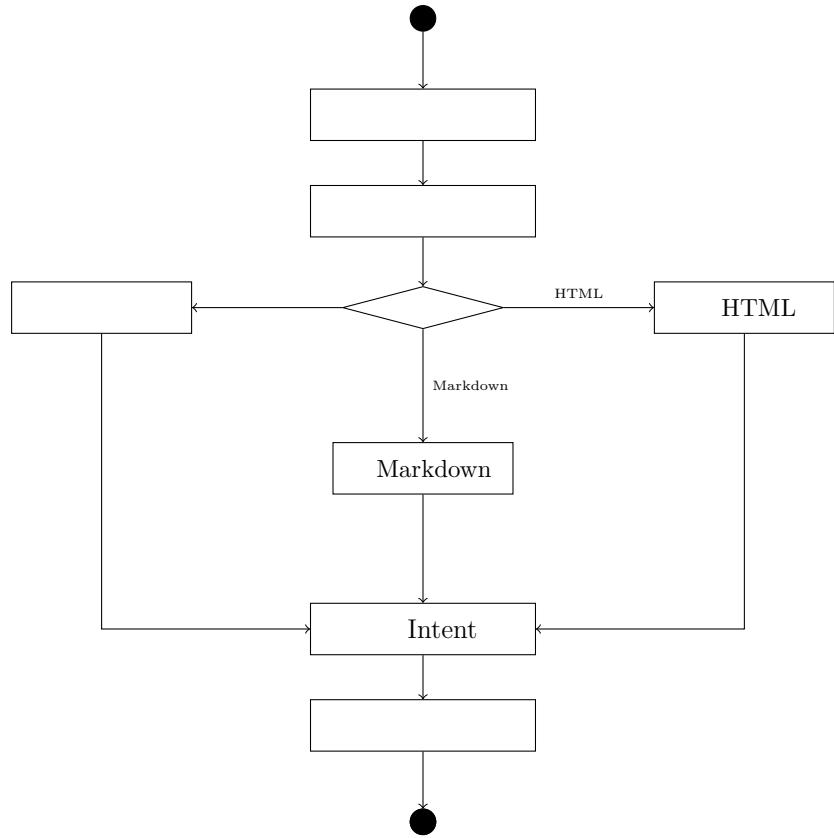
11

- 1
- HTML CSS
-
- HTML HTML5
- Markdown CommonMark

3.2

3.2.1

-
- 1

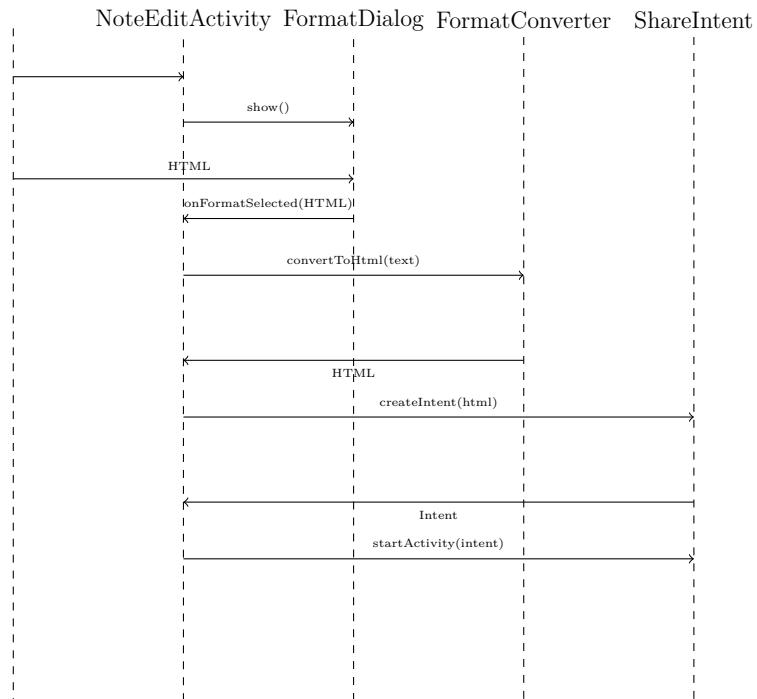


9:

- 1
 - 500ms
 - Markdown 500ms
 - 1
 -
 - 50MB
 - 1000 10MB
 - APK 20MB
 -
 - 10000 100000

3.2.2

- 99.9%



10: HTML

- NotesProvider
-
-
-

— Markdown

—
—
—

3.2.3

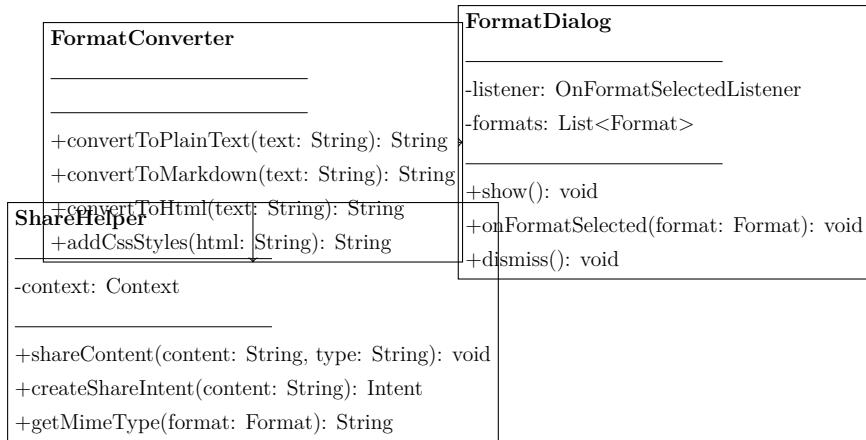
-

— Android

—
—
—

— ContentProvider

— Markdown



11:

- PDF
-
- UI
-

3.2.4

-
-
- HTTPS
- Android KeyStore
-
-
-

3.2.5

- Android 4.0 API Level 14+
-
-
- Material Design Android

3.2.6

- -
 -
 -
- - Android UI
 -
 -
- -
 -
 -

4

4.1

SQLite

4.1.1 note

_id	INTEGER	PRIMARY KEY	
type	INTEGER	NOT NULL	/
created_date	INTEGER	NOT NULL	Unix
modified_date	INTEGER	NOT NULL	Unix

sync_id	INTEGER		ID
parent_id	INTEGER		ID
alerted_date	INTEGER		

4.1.2 data

_id	INTEGER	PRIMARY KEY	
mime_type	TEXT	NOT NULL	text/note
note_id	INTEGER	NOT NULL	ID
content	TEXT	NOT NULL	Markdown
data1	INTEGER		1
data2	INTEGER		2
data3	TEXT		3

4.2

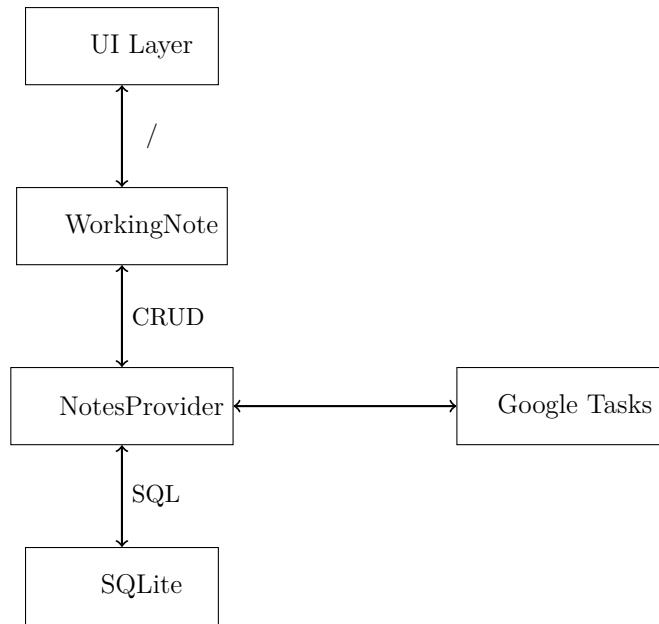
12

5

5.1

5.1.1

-
-
-
-



12:

5.1.2

- EditText
- TextView
- - /
 -
 -
 -
- Markdown

5.1.3

- Markdown HTML
-
-

5.2

5.2.1 Android

- **AlarmManager**
- **ContentProvider**
- **Intent** Activity
- **AccountManager**

5.2.2

- **Markwon** Markdown
 - `Markwon.create(context): Markwon`
 - `markwon.setMarkdown(textView, markdown): void`

5.3

- WiFi
-
-

6

6.1

- 5
- Markdown
-

6.2

- MTBF 100
- 0.01%
- 99%

6.3

- 2
- 100MB
- 1%

6.4

- 30%
-
-

7

7.1

7.1.1 Markdown

- **AC-001** Markdown
- **AC-002** 200ms
- **AC-003** Markdown
- **AC-004** 10000 Markdown
- **AC-005** Markdown

7.1.2

- **AC-006**
- **AC-007**
- **AC-008** Markdown
- **AC-009** HTML CSS
- **AC-010** Intent 5

7.1.3

- **AC-011**
- **AC-012**

7.2

- **PC-001** < 1 Android
- **PC-002** Markdown < 500ms 10000
- **PC-003** < 1
- **PC-004** < 50MB
- **PC-005** APK < 20MB

7.3

- **CC-001** Android 4.0
- **CC-002** 3
- **CC-003**

7.4

- **SC-001**
- **SC-002** HTTPS
- **SC-003**

7.5

- WorkingNote FormatConverter MarkdownRenderer
>80%
- UI
-
- Android Profiler
- 5 Android
- **UAT** 5-10

8

8.1

	WorkingNote
	Markdown
MIME	”text/note”
	Google Tasks
	Acceptance Criteria

8.2

MVC Model-View-Controller

- **Model** WorkingNote Note
- **View** NotesListActivity NoteEditActivity UI
- **Controller** Activity

Android

- ContentProvider
- AsyncQueryHandler
- Cursor