

# Software Design Document

# 3-D Newspaper

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# 1 Introduction

## 1.1 Purpose of Document

The purpose of the Software Design Document is to make developers understand what is to be built and how. It gives all the necessary descriptions of the app to be built. It is the next step after Software requirement specifications document. The modules in the SRS will be made into a design to be easily understandable. This document comprises of the design for 3D Newspaper

## 1.2 Scope of the Project

Since many people feel uncomfortable or complexed by digital newspapers, this app aims at making such attempts easy and comfortable to be usable. The users of the project ranges from school children to retired adults. Anyone who wishes to read digitized newspapers, this will be the best, easiest and most comfortable stop. All the newspaper companies will come under the channel providers and will publish their articles in this app. Famous bloggers can also provide their articles here. Any user with basic experience with Android/iOs can use this app easily.


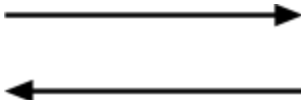


## 1.3 Definitions, Acronyms and Abbreviations

1. DFD → Data Flow Diagram
2. SRS → Software Requirement Specifications
3. PDF → Portable Document Format
4. ERD → Entity Relationship Diagram
5. DOCX → Document Extended

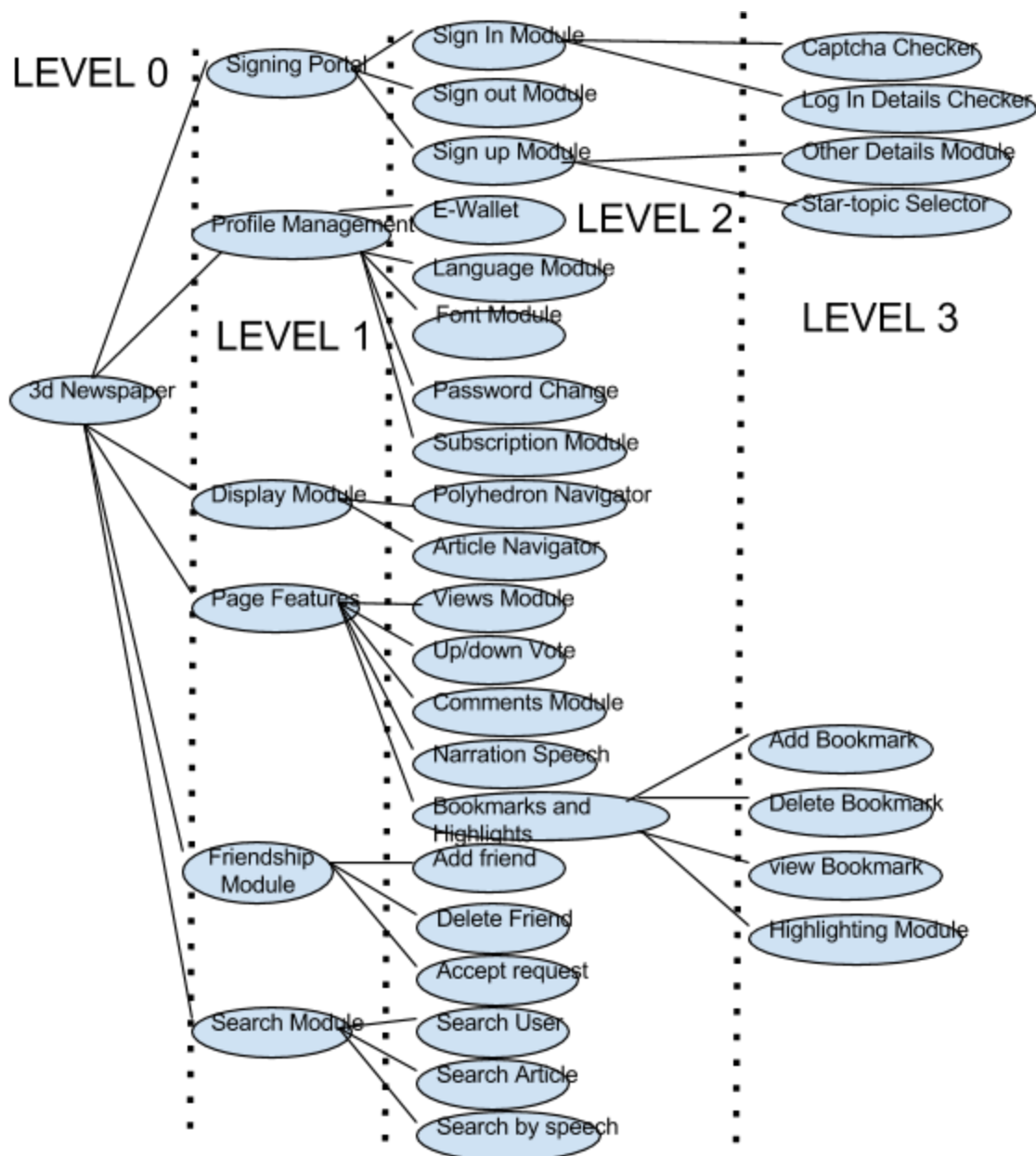
## 1.4 References

1. NPTEL Course for Software Engineering Course
2. Software Engineering: A Practitioner's Approach by Roger S Pressman
3. <http://ieeexplore.ieee.org/document/4721332/?reload=true> IEEE website for DFD

## 2 Data Flow Diagram and ERD

Name	Notation	Role
Process		This converts and processes input to output.
Data Flow		Data flow from one entity to another Is represented by arrows.
Data Store		These are databases. Data is stored In these.
External Entity		External entities are objects outside system like user or sensors of phone.

### 3 Process Decomposition of each level of DFD



## 4 Data Dictionary

News Objects	JSON format	All the things related to news articles from  The provider are in the form of JSON objects, coming from api of provider.
Links to News Channels	HTTPS/HTTP	Link to websites of the newspaper providers
News articles	JSON	The JSON format stored contains the path to the article in the news providers channel  Is stored by which we will redirect to that
Navigation	Attribute	Scrolling article, zoom in/out, rotating  Polyhedron, links etc....
Friends	Attribute	The id of the user is stored in the reader's Database.
Bookmarks	Text/Alpha  Numeric string	The bookmarked article is stored  completely in the database including the  Highlighted parts by the reader.

## 5 Tools used to create DFD

Google docs is used to create this document. This template is one of their default templates

Smartdraw trial version for 7 days is used for the creation of DFD diagrams.

<https://cloud.smartdraw.com/>