

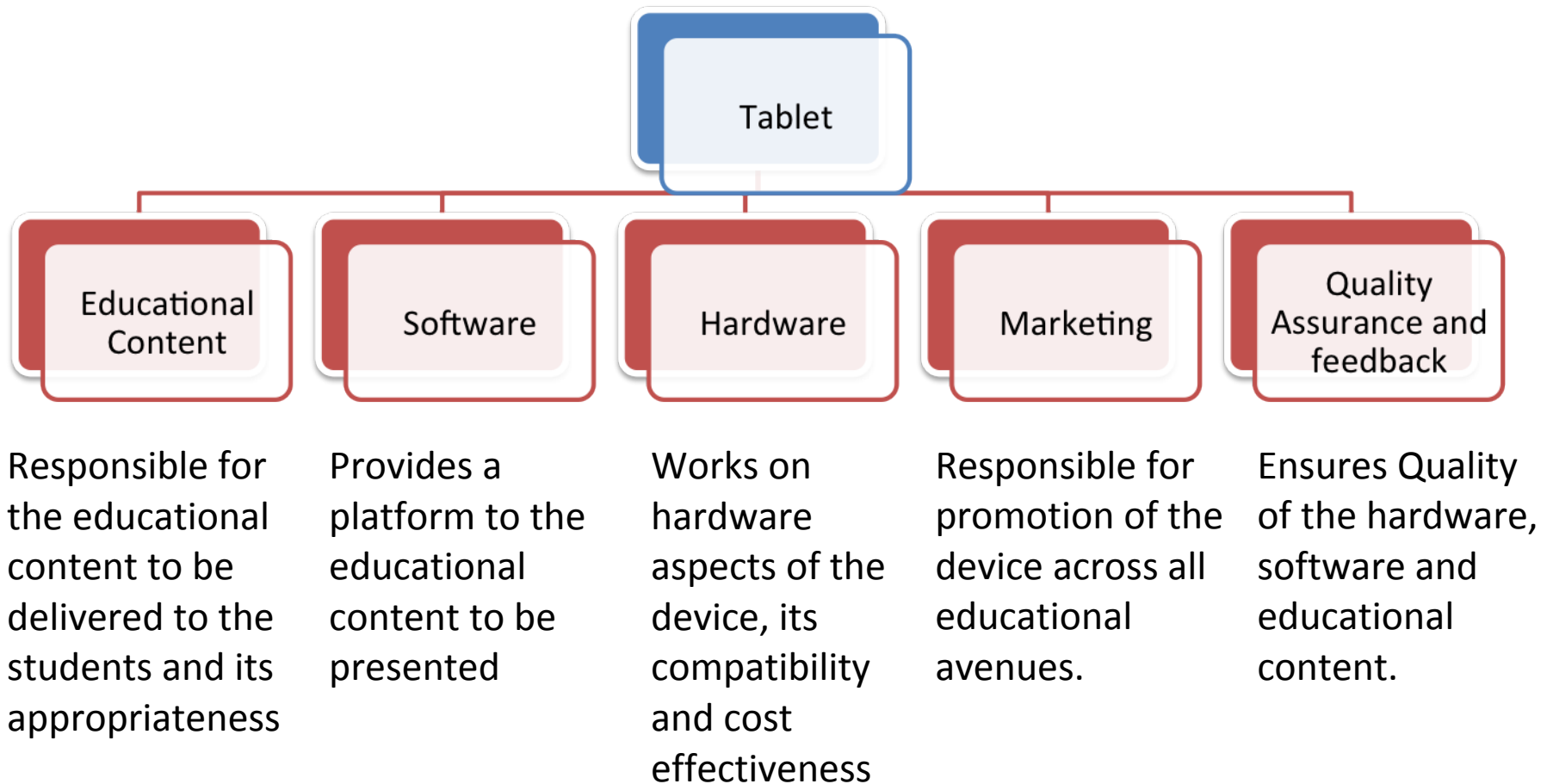
Gyan

An Educational Tablet

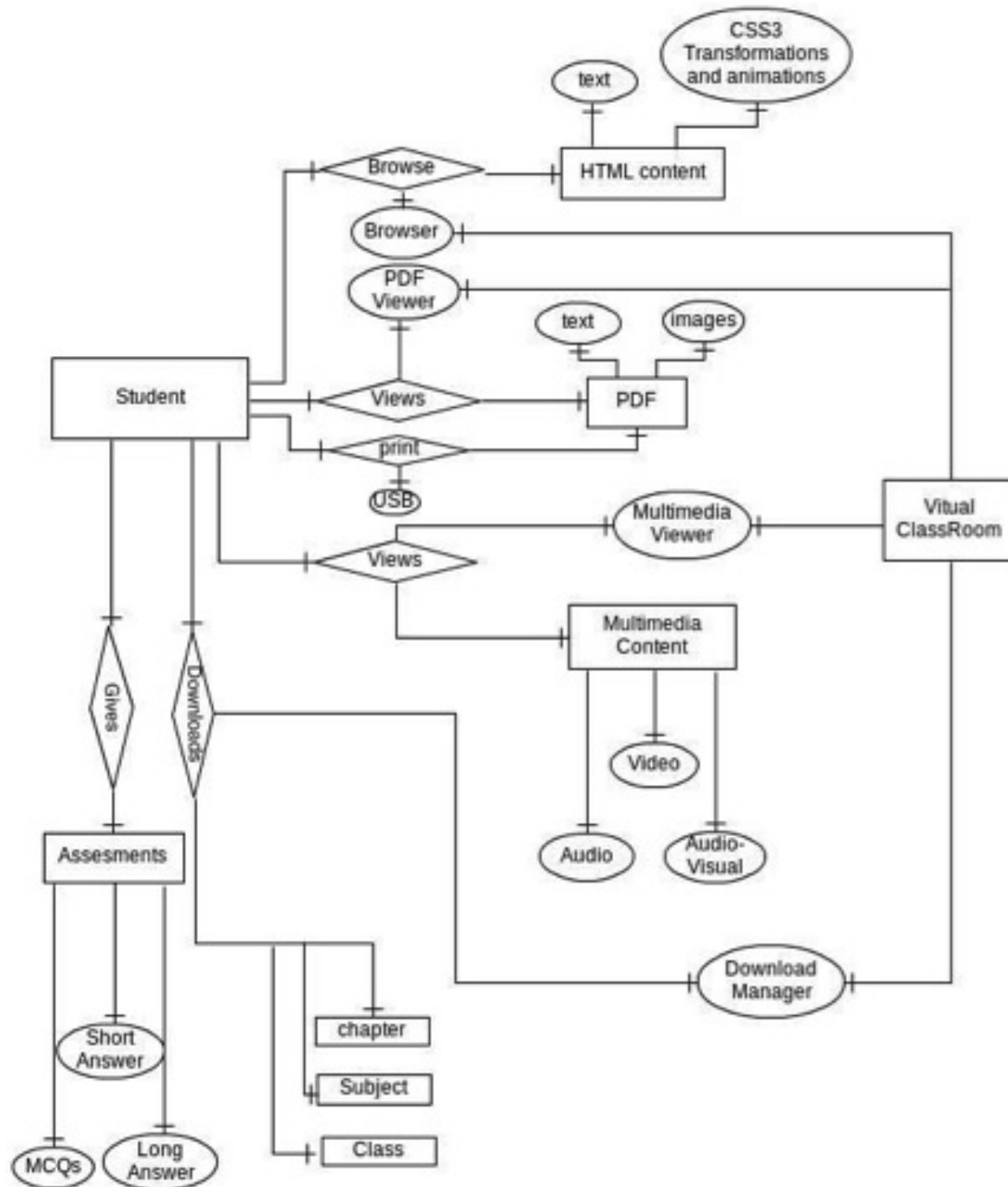
Faculty Mentor:
Dr. K.S. Rajan

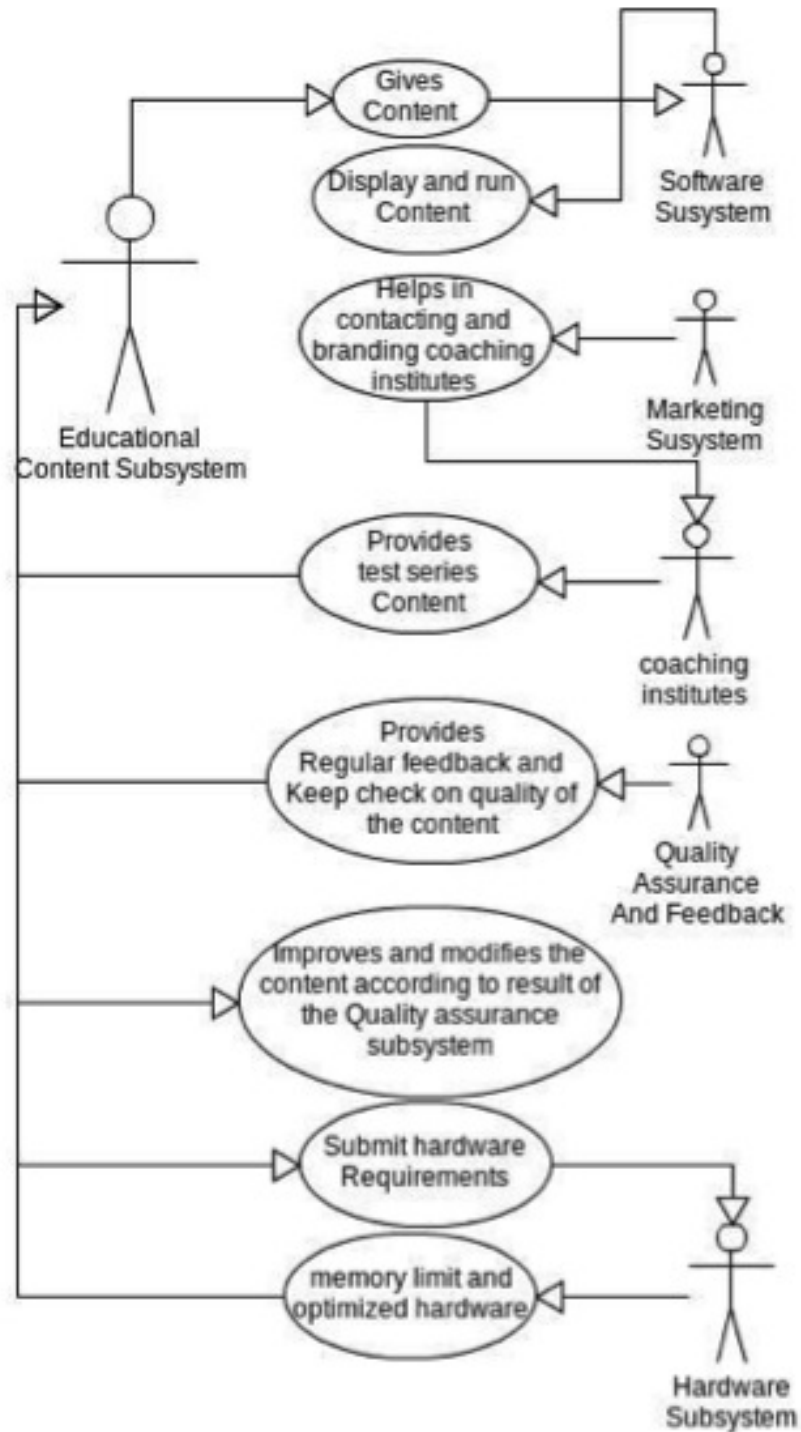
Presented by:
Group 2

TA Mentor:
Naveen Panwar



Educational Content Subsystem





Software Subsystem

EDUCATIONAL CONTENT

PDF
VIEWER

IMAGE
VIEWER

VIDEO/AUDIO
PLAYER

VIRTUAL
CLASSROOM

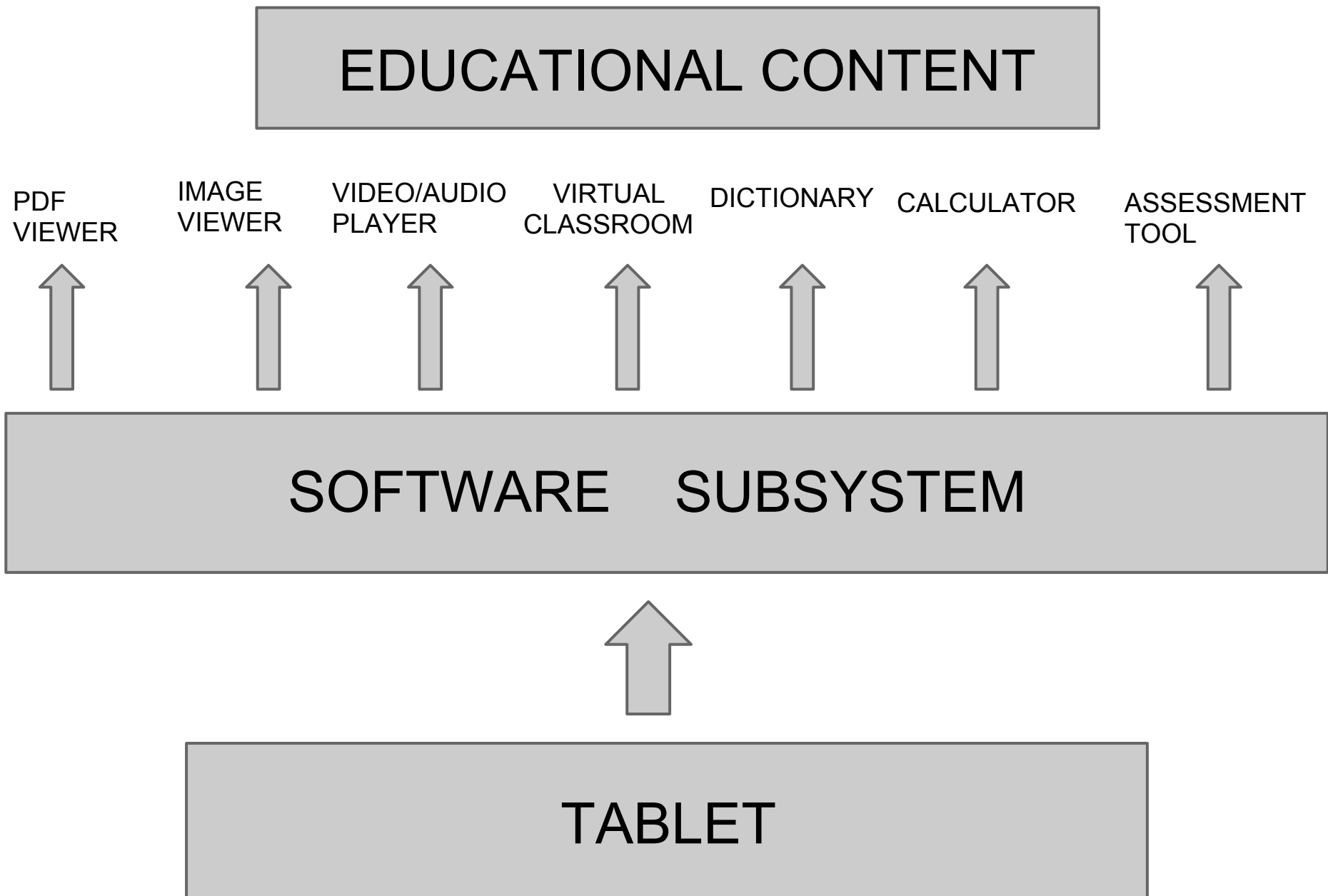
DICTIONARY

CALCULATOR

ASSESSMENT
TOOL

SOFTWARE SUBSYSTEM

TABLET



Software Suite

1. A technically optimised and cost effective software suite has been designed for our system.
2. The software suite operates with an Android Operating System.
3. Android is not only an open source but also a popular operating system and users are well acquainted with it.
4. The specifications and details of the softwares in the software suite are explained in the following slides.

Software Suite Elements

1. PDF Reader

- Opens PDF format files
- Can add Sticky Notes
- Comments
- Important Observations.

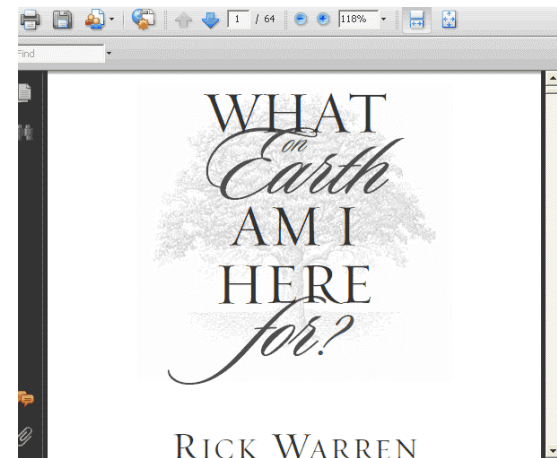
areas, and to help people access and use even more of the ever-expanding information in their lives.

3. Fast is better than slow.

We know your time is valuable, so when you're seeking an answer on the web you want it right away – and we aim to please. We may be the only people in the world who can say our goal is to have people leave our homepage as quickly as possible. By shaving excess bits and bytes from our pages and increasing the efficiency of our serving engine, we've broken our own speed record. In computing, a byte is a unit of storage approximately equivalent to one printed character. [More »](#)

4. Democracy on the web works.

Google search works because it relies on the millions of individuals



Software Suite Elements

2. Image Viewer

- Zoom In, Zoom Out
- Rotate Images



3. Audio/Video Player

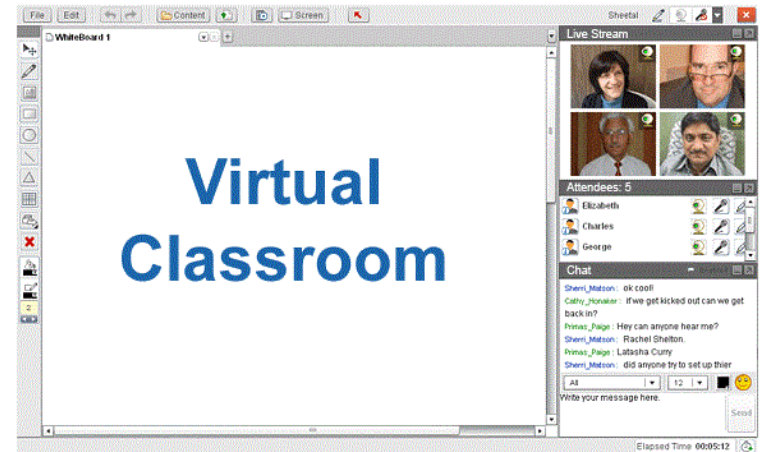
- Fast Forward, Slow Motion
- 480p Quality



Software Suite Elements

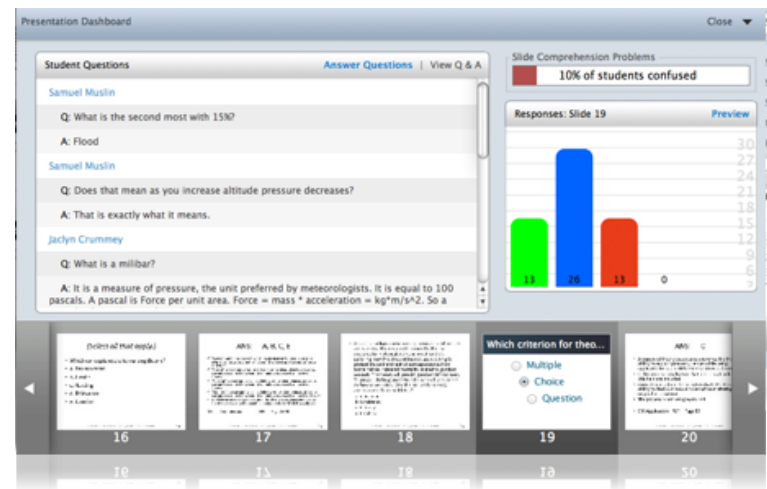
4.Virtual classroom :

- Interaction with the teacher
- Share documents and presentations



5.Assessment:

- Evaluation of performance of the student
- Quizzes , Tests for every chapter



Software Suite Elements

6.Dictionary and pronunciation:

- Check the meaning of the word
- Improves pronunciation skills.

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7.Calculator

- Assists scientific calculations



Software Suite Elements

8.Update and download tool:

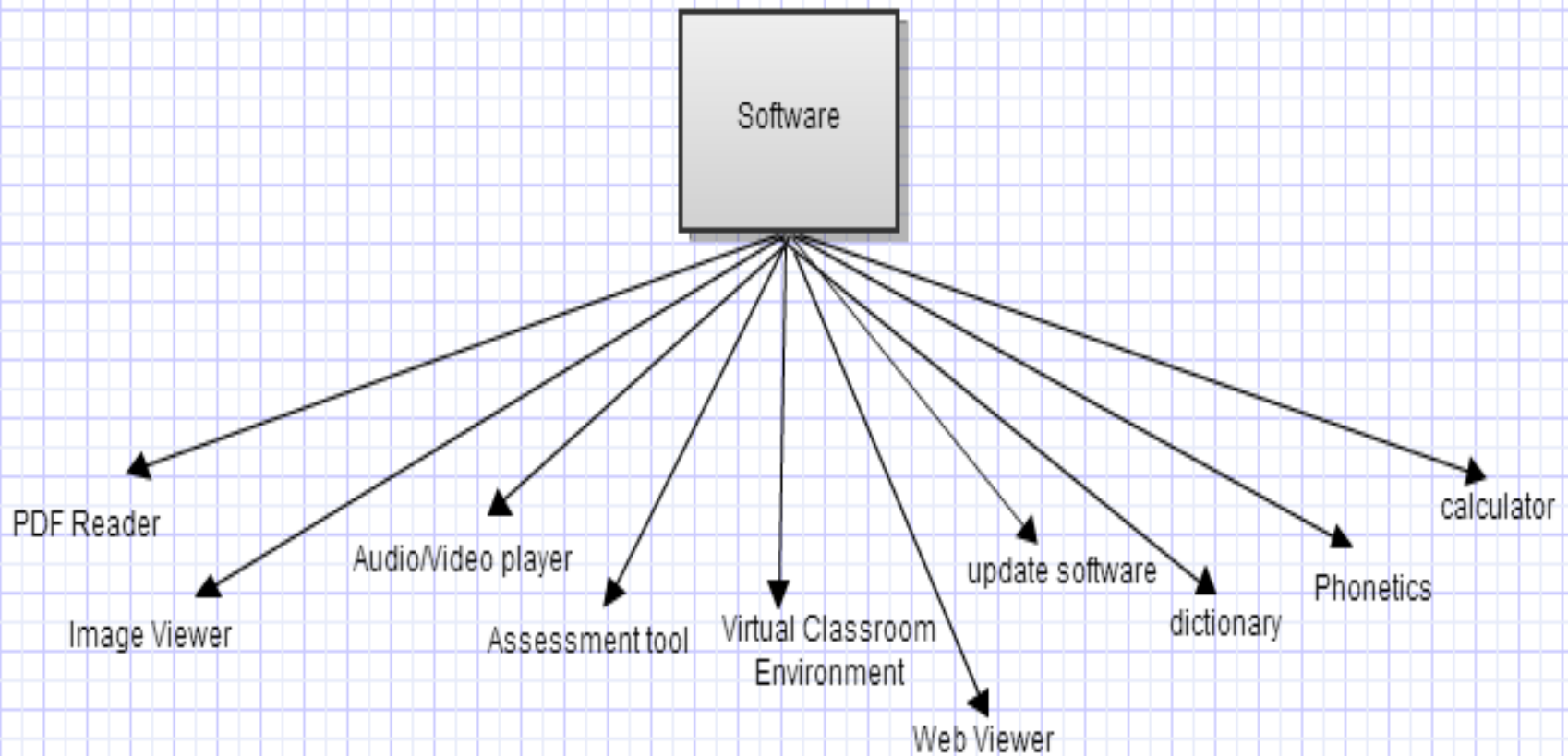
- Get to know the updates
- Download the desired educational content.

9.Web Viewer

- Displays html content



Software Subsystem Overview



Hardware Subsystem

Interaction With Other Subsystems

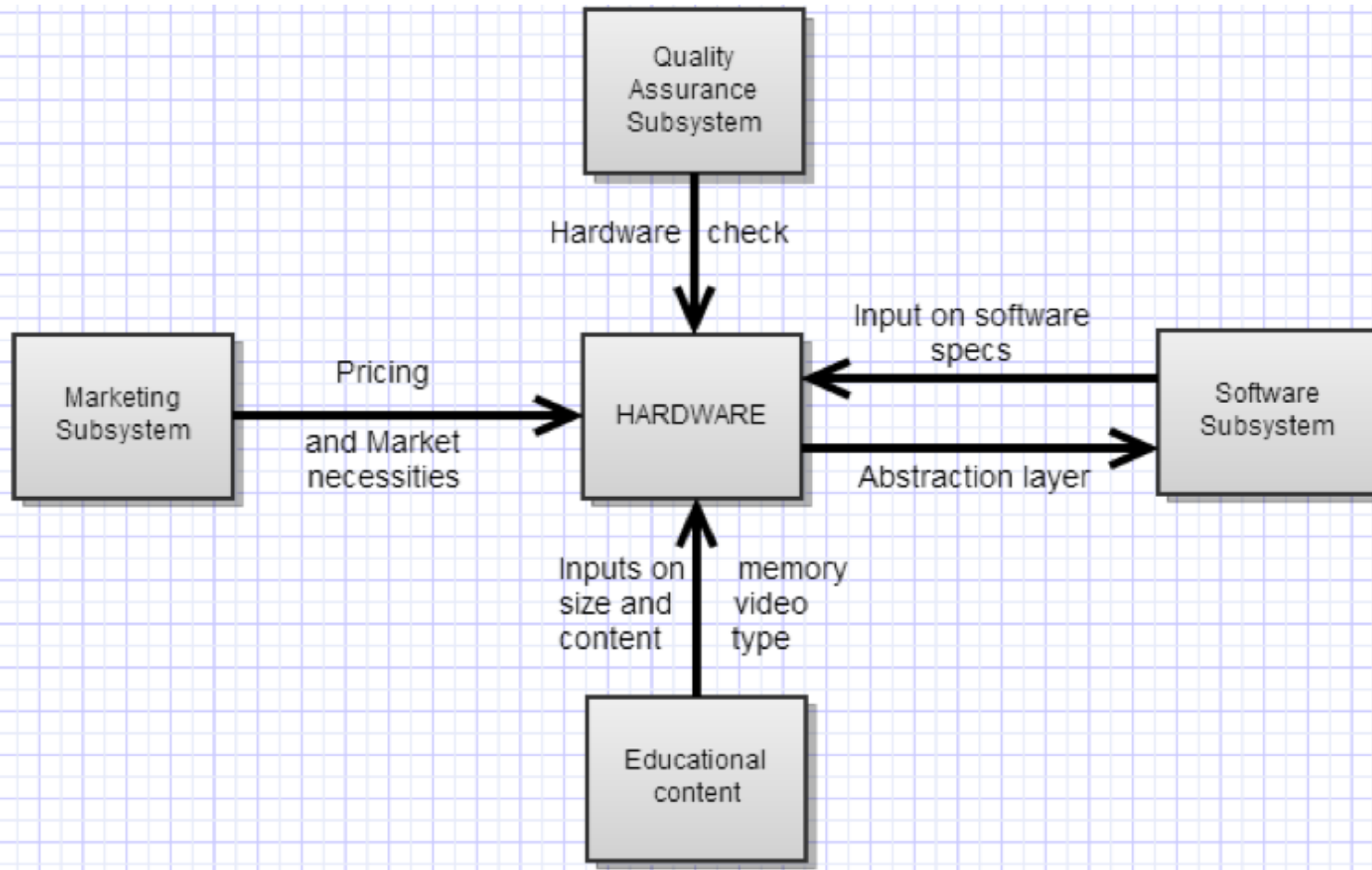


Figure: Interaction of hardware subsystem with other subsystems

Outline of the Hardware

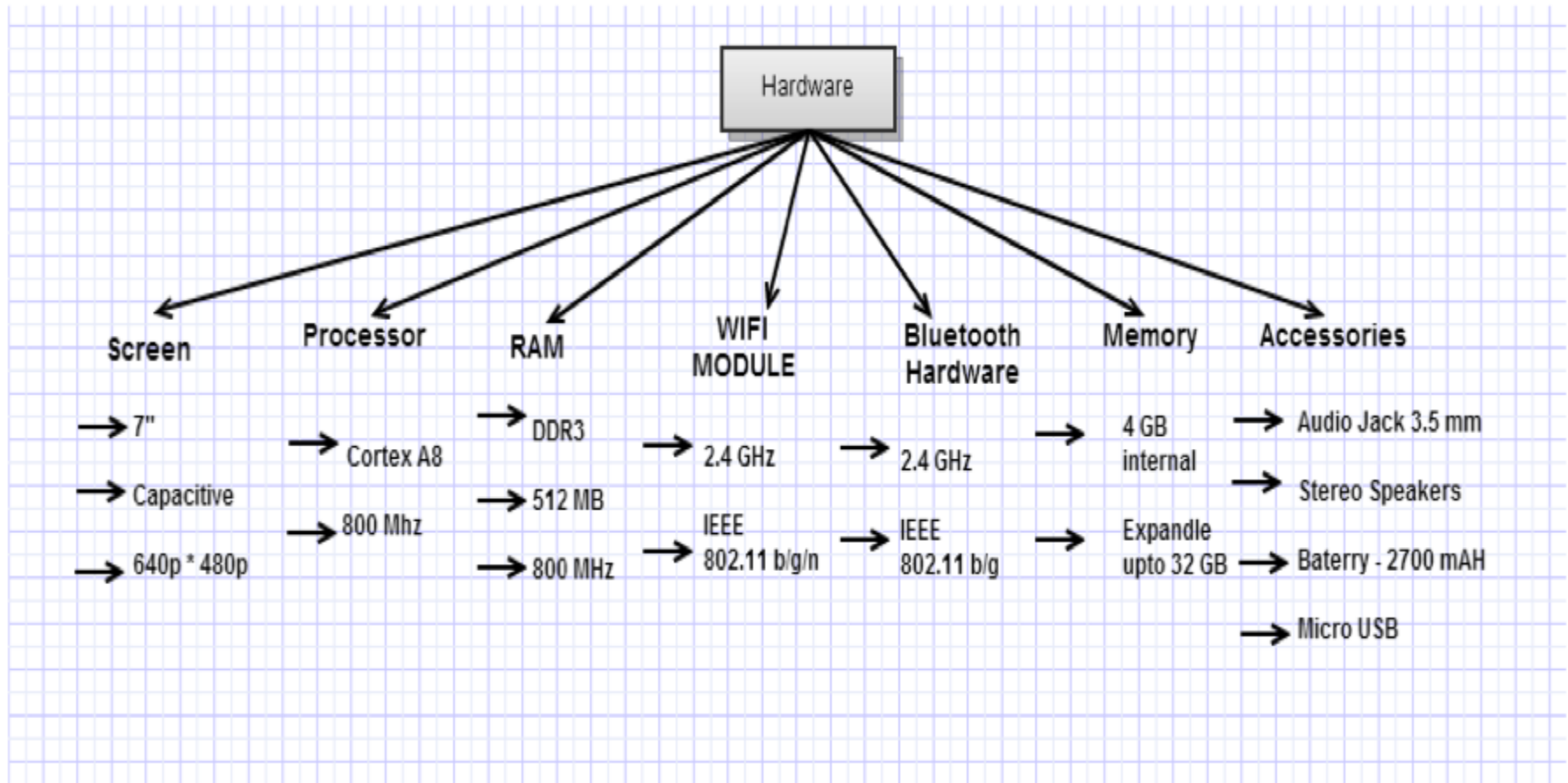


Figure: Hardware Outline

Why These Specifications?

Screen Size - 7"

- Easy to hold and carry around
- Optimum for reading e-books and viewing educational content

Memory - 4 GB

- Worst case memory calculations suggest that 4GB is sufficient storage space.

RAM - 512MB DDR3 RAM

- A thumb rule is to provide 1/8th internal memory provided.
- As we are making a software suite, the RAM use will be in good control

Processor - 700 mW Cortex A8 800 MHz (ARM Architecture)

- Saves a lot of power, increasing battery life.
- Suitable for playing media like audio, video(upto 720p).

Marketing Subsystem

Pre Launch	Post Launch
Surveys with educational institutes	Marketing Campaign
Research on existing devices and market potential	
To decide a pricing strategy after interaction with other groups	

Marketing Campaign

- Phase 1: Bangalore, Chennai, Delhi, Hyderabad, Kolkata, Mumbai, Ahmedabad.
Approx. 5 schools in each city
- Phase 2: Bangalore, Chennai, Delhi, Hyderabad, Kolkata, Mumbai, Ahmedabad.
Approx. 180 schools in each city
- Phase 3: Karnataka, Tamil Nadu, Andhra Pradesh, West Bengal, Maharashtra, Gujarat
Approx. 4,80,000 students reached
- Phase 4: Each and every student of India

Quality Assurance and Feedback Subsystem

Purpose Of Quality Assurance -

- Service Model
- Selling Point
- Maintain Relationship between user and team.
- Synchronizes every subsystem after the final product is ready.

The Quality Assurance team reviews the product on following parameters -

- System Quality
- Information Quality
- User Satisfaction

Beginning of the Phase
When a new release/phase of the product is about to begin, our work here is to ensure the sync of all the subsystems to ensure error free and glitch free device.



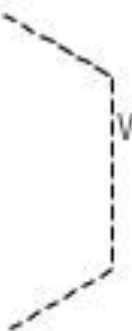
During the phase
Perform batch testing on raw materials and also the end products. This way we ensure quality of the end product



After the completion of the version
We take up all the crash reports, user feedbacks and user surveys and propose changes to the respective subsystems for the next version.



When end product is developed and about to launch in the market



When the end product is in the market



When new release is being planned

Timeline of end-product of each phase



Features

- Cost affordable
 - Estimated cost Rs 4000-5000
- Learning specific
- Evolving with time
- Good proactive support
- Vivid educational content

Let's redefine learning.