A MATERIAL DESIGN STUDY APP

1. Introduction :

Material Design Components (MDC Android) offers designers and developers a way to implement Material Design in their Android application. Material design in Android is one of the key features that attracts and engages the customer towards the application. This is a special type of design, which is guided by A Study Material. So in this article, it has been introduced to the basic things that need to be considered before designing or developing any Materialistic Android Application.

1.1 Overview :

- A Study Material Design guidelines have become the signature look of their websites and apps. Still, there are plenty of use cases outside of A Study Material platforms where Material Design is also a solid choice.
- Materials design for functional applications carried out using conventional trial and error methodologies is expensive and time consuming. Machine learning techniques can be used to design materials suitable for functional applications and discover materials for specific applications from existing literature.
- This study demonstrates a machine learning approach where a combinatorial analysis was used to design perovskite structures and a novel methodology was devised to calculate descriptor values which were used for property prediction of the designed perovskites.

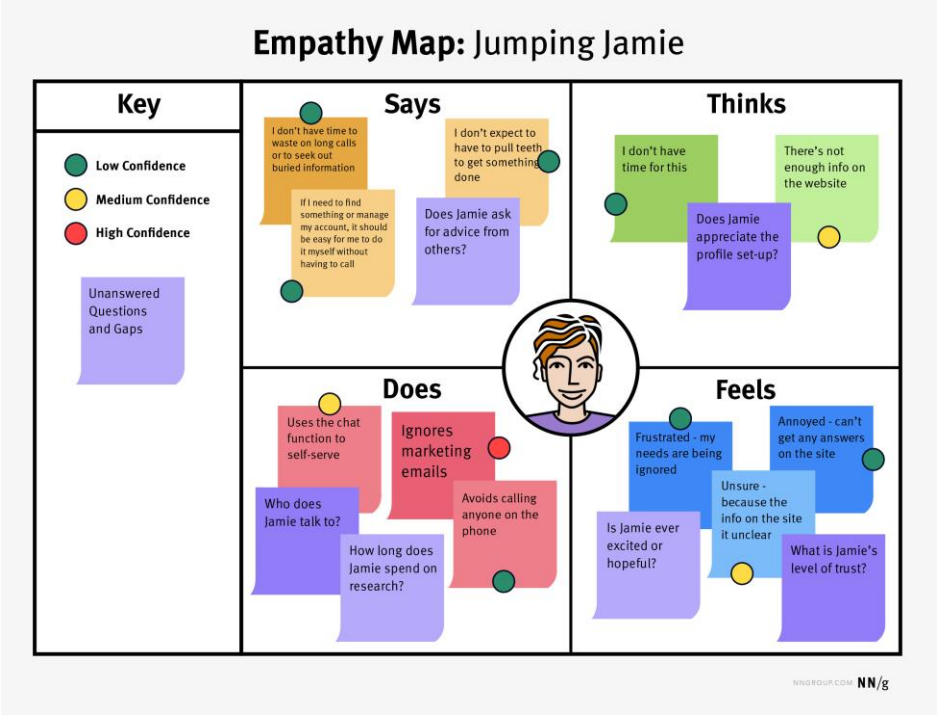
- ❖ New and improved materials have long fostered innovation. The discovery of new materials leads to new product concepts and manufacturing techniques.

1.2 Purpose :

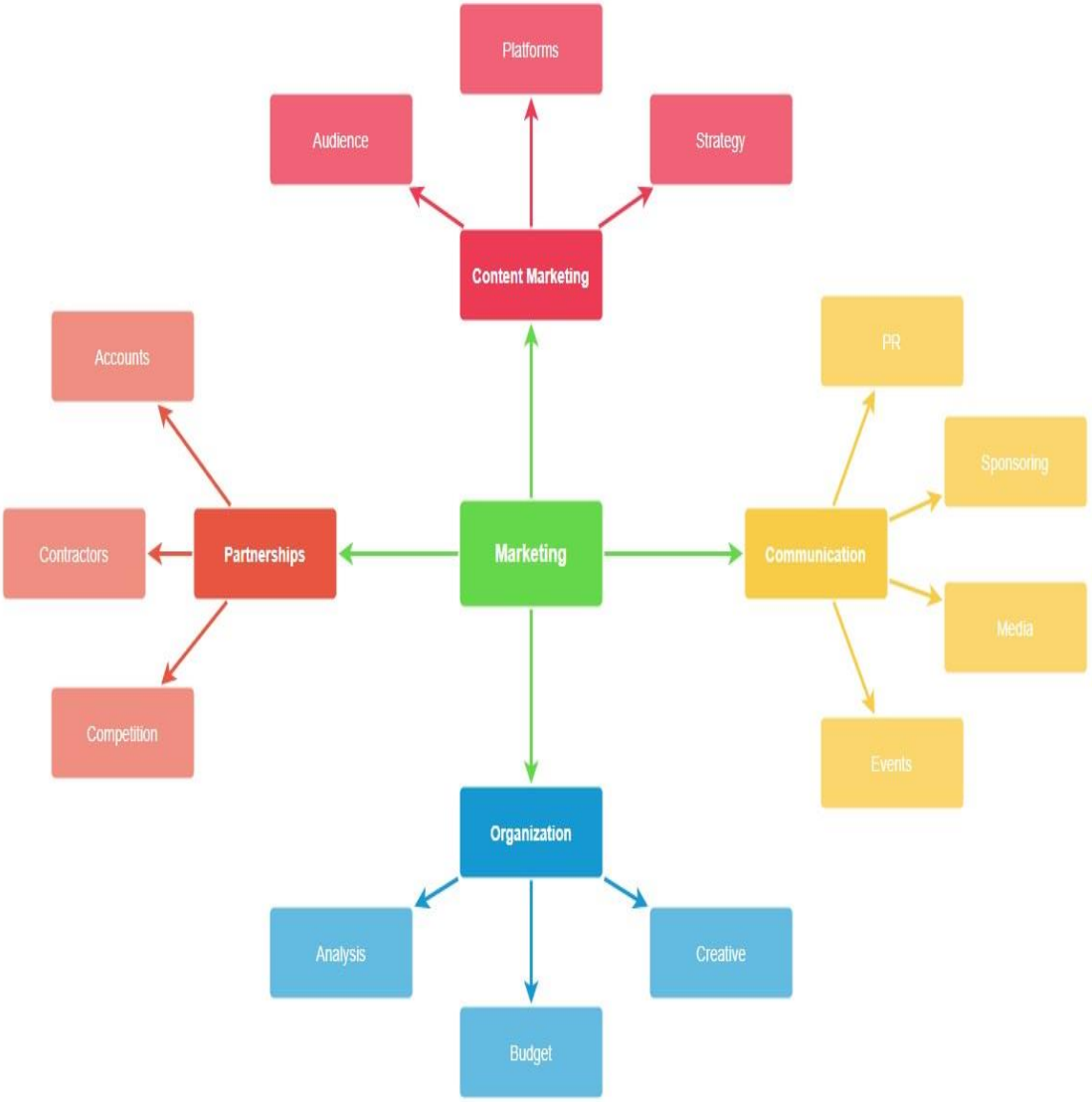
Material design is a comprehensive guide for visual, motion, and interaction design across platforms and devices. To use material design in your Android apps, follow the guidelines defined in the material design specification and use the new components and styles available in the material design support library.

2. Problem Definition & Design Thinking

2.1 Empathy Map

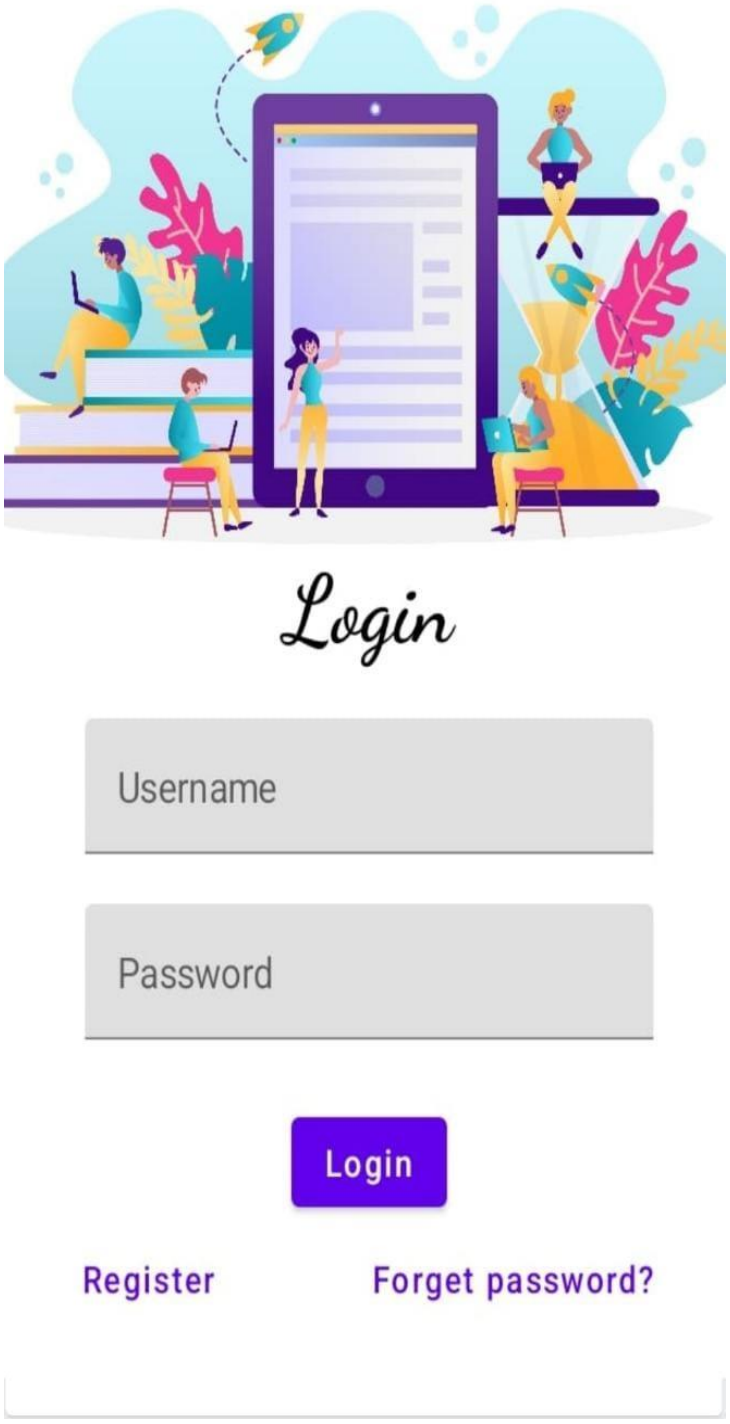


2.2 Ideation & Brainstorming Map



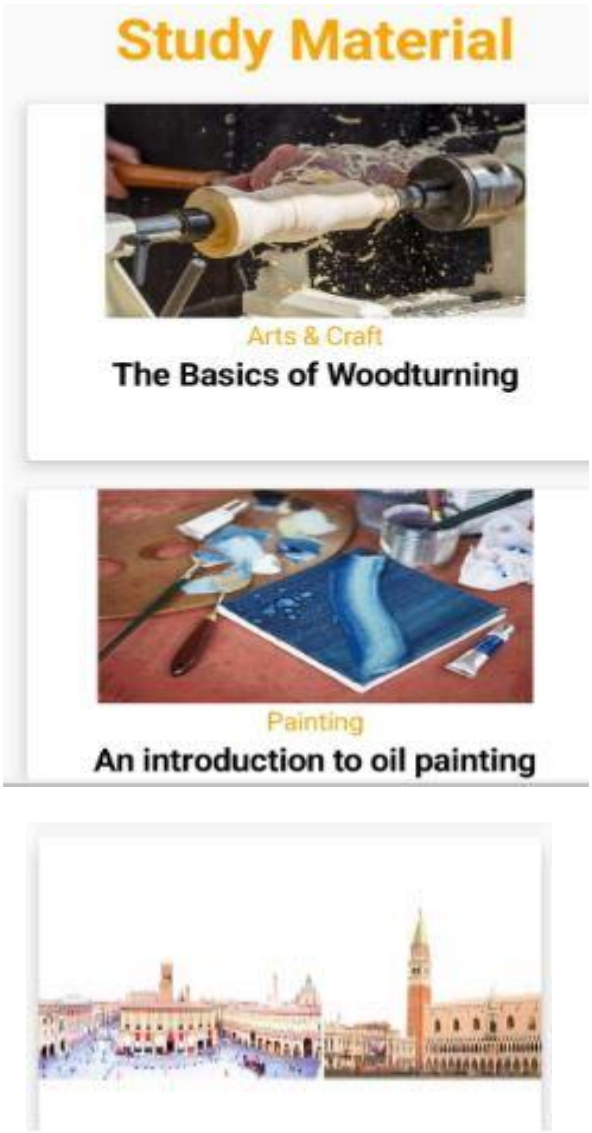
3. Result

Sign in Page



Register Page

Main Page


Study Material
Arts & Craft
The Basics of Woodturning
Painting
An introduction to oil painting

Book Page

The Basics of Woodturning

What is wood Turning

Woodturning is a form of woodworking involving a lathe. With other kinds of woodworking, the wood is stationary and the tools moves to creates cuts.

In woodturning the lathe turns the wood on its axis at high revolutions per minute while relatively stationary special cutting tools on a tool rest do the work.

A wood lathe allows wood turners to create all kinds of objects, from bowls to stair railings to chess pieces to musical instruments.

4.Advantage and disadvantage

4.1 Advantage :

- In the wake of the global pandemic, the education sector has seen a massive expansion of technology. With technology on its side, the entire industry is discovering new ways of doing things. It's not that technology has not been used in education before, but the use of educational applications has been limited.

- Using technology used to be a choice, but now it's a requirement. This has led to the adoption of educational software development via mobile applications, allowing companies, particularly in the education sector, to reach new heights. During compulsory distance learning, it was evident that there was a huge demand for technical tools and systems that allowed professors to communicate with their students, track their learning progress, and distribute their courses.

4.2 Disadvantage :

- While Material Design has very obvious pros, that doesn’t mean there aren’t cons that go along with using it. First up, Material Design is immediately identifiable and is strongly associated with A Study Material and, specifically, Android. While this isn’t necessarily a bad thing for everyone, it’s potentially a negative for some.

- One big reason that it might be a negative is that it limits the effectiveness of other branding while using the A Study Material design system. Yes, designers can incorporate logos, color palettes (within the Material Design guidelines), and other differentiating factors to support the brand identity, but a product following the Material Design specifications will almost always *also* be associated with A Study Material.Since motion and animation are promoted within the Material Design guidelines, sites or apps that don't incorporate it can seem to users as if they're missing something. People associate the motion characteristics of Material Design with the visual characteristics, which can leave designs without motion lacking.
- Sure, one solution is to always incorporate motion in designs that follow the Material Design specs. But extensive animations can be very resource-heavy on mobile devices, resulting in higher data usage and faster battery depletion. It's a balancing act designers have to consider when working within the Material Design guidelines.

- Beginners may find that the Material Design specification is more complicated and harder to implement than other styles like flat design. Because the Material Design system is so comprehensive, there are a lot more things to consider and adhere to than many new designers may be comfortable with.

5. Application

Announcing Relay Alpha : Relay streamline design and development of custom components through Figma and Android Studio.

Motion System updates : Get started applying motion, from ready- to - use transition patterns to updated guidance.

Designing depth & Elevation : Learn how to design and build more usable interfaces with visual cues for elevation.

Accessibility specs : Understand and apply accessibility standards built into materials.

Material Theme Builder : Easily migrate or get started with the M3 Color system and dynamic color.

6. Conclusion

If an app is being built primarily for the Android platform, then using Material Design is an easy choice. Because of Google's widespread adoption, any app based on Material Design principles is going to feel like a native app.

That said, there are plenty of other use cases outside of the Android platform where Material Design is a solid choice. As the design system matures even further, those situations are bound to increase. Designers should, at the very least, familiarize themselves with the guidelines so that they can determine for themselves when it's appropriate to use Material Design, and when other systems might be better suited.

7. Future scope

It is very essential to keep the material organized, ordered, and in a systematic manner to avoid any trouble at the workplace. Therefore, managing material in an organization requires keeping a record of all the raw material, storage, control, distribution, and supervising all the processes. Companies are always in need of skilled professionals to perform these tasks and therefore hire professionals, skilled material managers, to oversee all these operations for smooth handling and functioning of the organization.

As a Material Management Professional has the capability to plan and buy goods and regulate inventory in order to satisfy the company's goals. These are professionals also have supply chain and inventory control experience. They collaborate with other managers to determine supply requirements and handle purchase supplies and materials in accordance with standards. Moreover, they also maintain favourable relationships with suppliers and keep accurate records of procurement activities, material quantities, and requirements.