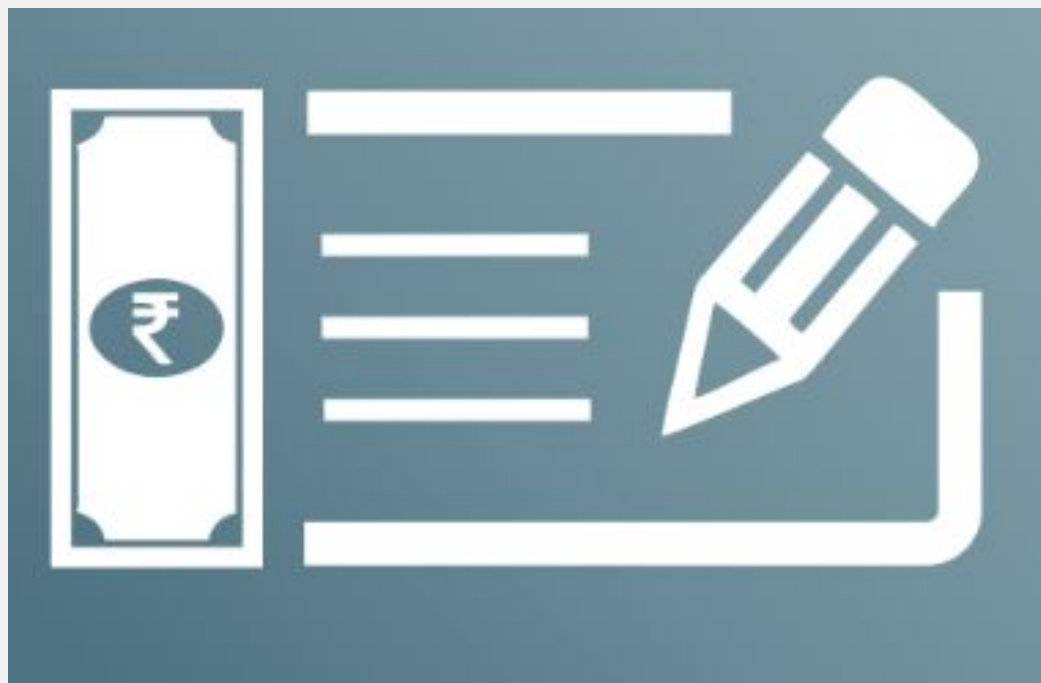


# Cloud Application Development



1. Personal Expense Tracker Application
2. Nutrition Assistant Application
3. Skill / Job Recommender Application
4. Plasma Donor Application
5. Containment Zone Alerting Application
6. Inventory Management System for Retailers
7. News Tracker Application
8. Smart Fashion Recommender Application
9. Customer Care Registry

## Use-Case 1: Personal Expense Tracker Application

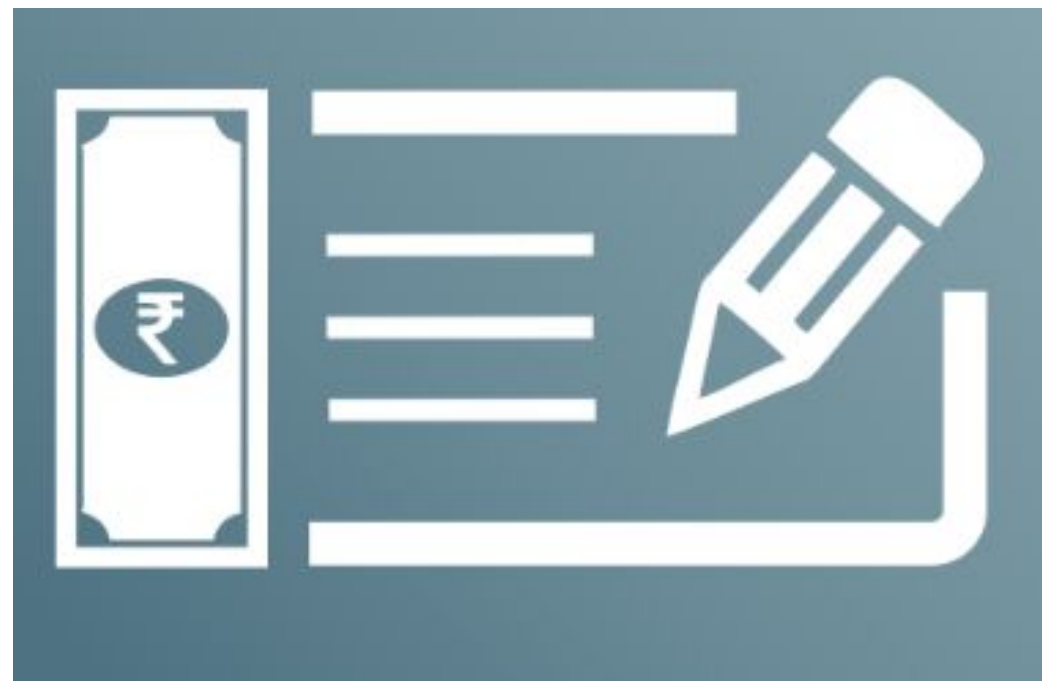


- All the financial decisions and activities that you make are unable to keep a track of it.
- This app makes your life easier by helping you to manage your finances efficiently
- A personal finance app will not only help you with budgeting and accounting but also give you helpful insights about financial management.

### Social Impact:

- It will help the people to track their expenses and also alerts when you exceed the limit of your budget.

## Use-Case 1: Personal Expense Tracker Application



### Business Model/Impact:

- We can provide the application in a subscription based.

### Existing Solution:

- <https://www.spendee.com/>

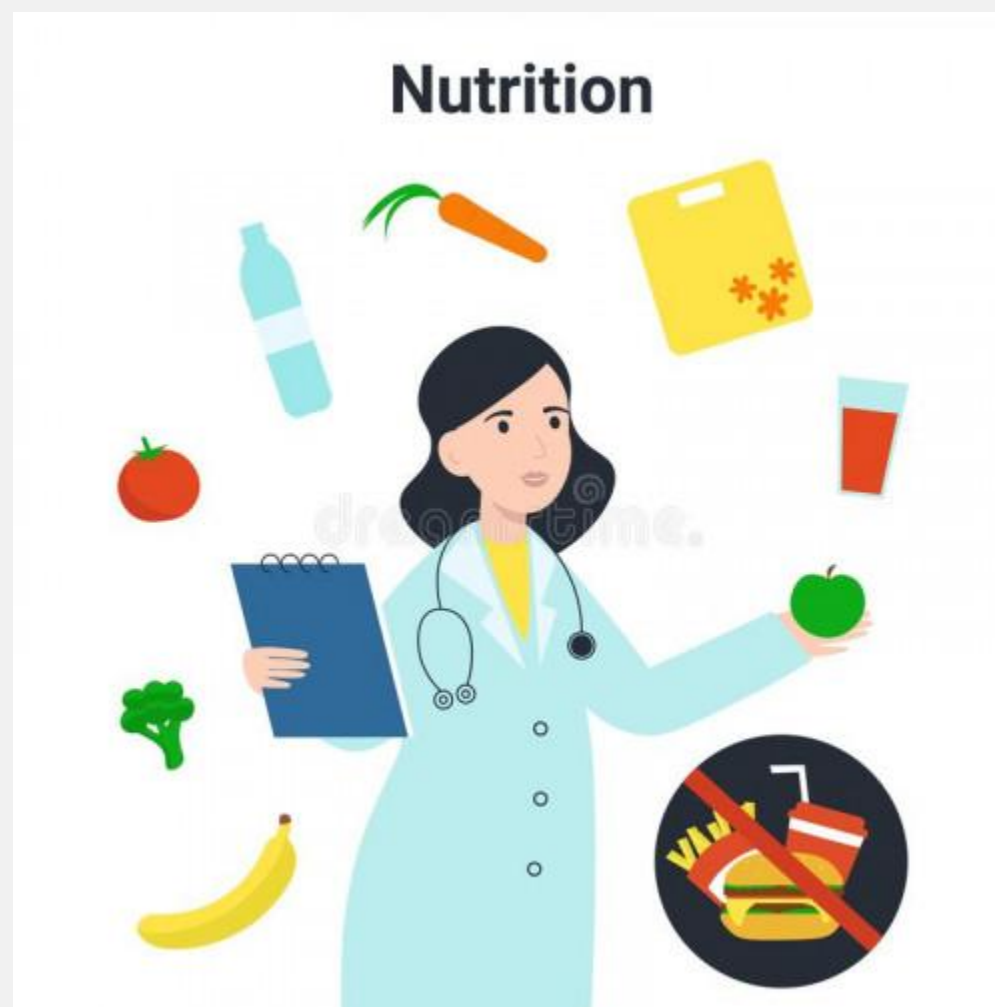
### Recommended Technology Stack:

- Python, Flask, IBM DB2, Docker, Kubernetes, IBM Cloud, etc.

### Reference:

- [https://www.researchgate.net/publication/347972162\\_Expense\\_Manager\\_Application](https://www.researchgate.net/publication/347972162_Expense_Manager_Application)

## Use-Case 2: Nutrition Assistant Application



- Due to the improvement in people's standards of living, obesity rates are increasing at an alarming speed, and this is reflective to the risks in people's health. People need to control their daily calorie intake by eating healthier foods, which is the most basic method to avoid obesity.
- However, although food packaging comes with nutrition (and calorie) labels, it's still not very convenient for people to refer.
- App-based nutrient dashboard systems which can analyze real time images of meal and analyze it for nutritional content can be very handy and improve the dietary habit

### Social Impact:

- It will help people with providing proper nutrition and helps in maintaining a healthy lifestyle.

## Use-Case 2: Nutrition Assistant Application



### Business Model/Impact:

- Social media is the best way to spread the word about our application. And with the influencers we can attract the normal people.
- Clustering and targeting the fitness people with the help of local gyms.

### Existing Solution:

- <https://www.nutriassistant.com/>
- <https://nutritioapp.com/>

### Recommended Technology Stack:

- Python, Flask, IBM DB2, Docker, Kubernetes, IBM Cloud, etc.

### Reference:

- <https://www.researchgate.net/publication/348459867> Dietitian assistant opportunities within the nutrition care process for patients with or at risk of malnutrition a systematic review

## Use-Case 3: Skill / Job Recommender Application



- Students will have the skill but they are unable to get the desired job for skills they have.
- We are proposing an application which will help the students to give suggestions on the jobs based on the skills.
- Students can also enquire about skills that are required for their desired job.

### Social Impact:

- Students will be benefited; they will get to know which jobs suit them based on their skill set.

### Business Model/Impact:

- We can provide the application for job seekers in a subscription-based model.
- We can share the profiles with companies and generate revenue by providing them the best profiles.

## Use-Case 3: Skill / Job Recommender Application



### Existing Solutions:

- <https://www.hirist.com/login>
- <https://www.linkedin.com>

### Recommended Technology Stack:

- Python, Flask, IBM DB2, Docker, Kubernetes, IBM Cloud, etc.

### Reference:

- [https://www.researchgate.net/publication/325697854\\_Job\\_Recommendation\\_based\\_on\\_Job\\_Seeker\\_Skills\\_An\\_Empirical\\_Study](https://www.researchgate.net/publication/325697854_Job_Recommendation_based_on_Job_Seeker_Skills_An_Empirical_Study)



## Use-Case 4: Plasma Donor Application

GIVE  
PLASMA  
SAVE  
LIVES



- During the COVID 19 crisis, the requirement of plasma became high and the donor count being low. Saving the donor information and helping the need by notifying the current donors would be a helping hand
- It is very difficult find the respective blood group donors when anyone is in need
- In regard to the problem faced, an application is to be built which would take the donor details store it and inform them upon a request.

### Social Impact:

- We can save life who are in need of plasma.



## Use-Case 4: Plasma Donor Application



### Business Model/Impact:

- we can collaborate with Government and it can utilise app to help the people who are need of plasma

### Existing Solutions:

- <https://delhifightscorona.in/donateplasma/>
- <https://www.blood.co.uk/plasma/>

### Recommended Technology Stack:

- Python,Flask, IBM DB2, Docker,Kubernetes,IBM Cloud, etc.

### Reference:

- [https://www.researchgate.net/publication/273067813\\_Free\\_Blood\\_Donation\\_Mobile\\_Applications](https://www.researchgate.net/publication/273067813_Free_Blood_Donation_Mobile_Applications)
- <https://nevonprojects.com/instant-plasma-donor-recipient-connector-android-app/>

## Use-Case 5: Containment Zone Alerting Application



- The World Health Organization has declared the outbreak of the novel coronavirus, Covid-19 as pandemic across the world.
- In a densely populated country like India, it is very difficult to prevent the community transmission even during lockdown without social awareness and precautionary measures taken by the people
- This application is intended to provide information about containment zones in a particular region by alerting people, through continuous monitoring of an individual's location.

### Social Impact :

- It will alert the people on containment zones.

### Business model/Impact :

- Government can utilise the application and alert the people when they are entering to a containment zone.

## Use-Case 5: Containment Zone Alerting Application



### Existing Solutions :

- <https://www.aarogyasetu.gov.in/>

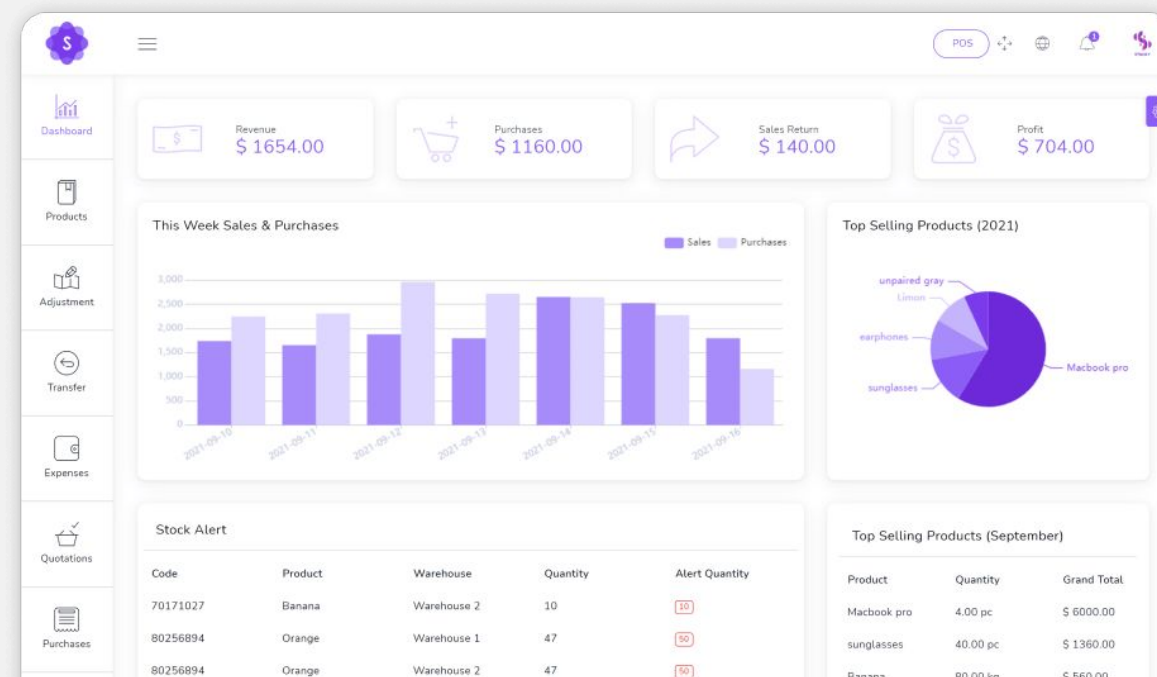
### Recommended Technology Stack :

- Flask, IBM DB2, Docker, Kubernetes, IBM Cloud, etc.

### References :

- [https://www.researchgate.net/publication/341298994\\_Development\\_of\\_an\\_Android\\_application\\_for\\_viewing\\_Covid-19\\_containment\\_zones\\_and\\_monitoring\\_violators\\_who\\_are\\_trespassing\\_into\\_it\\_using\\_Firebase\\_and\\_Geofencing](https://www.researchgate.net/publication/341298994_Development_of_an_Android_application_for_viewing_Covid-19_containment_zones_and_monitoring_violators_who_are_trespassing_into_it_using_Firebase_and_Geofencing)

## Use-Case 6: Inventory Management System for Retailers

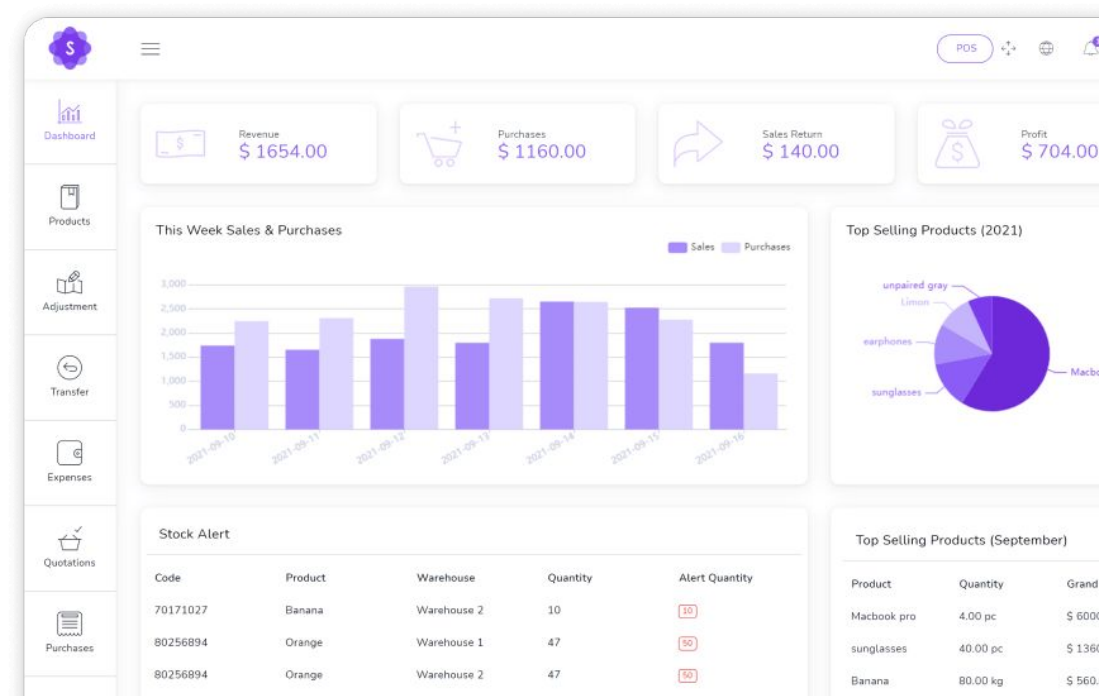


- Retail inventory management is the process of ensuring you carry merchandise that shoppers want, with neither too little nor too much on hand. By managing inventory, retailers meet customer demand without running out of stock or carrying excess supply.
- In practice, effective retail inventory management results in lower costs and a better understanding of sales patterns. Retail inventory management tools and methods give retailers more information with which to run their businesses.

### Business Model/Impact:

- By providing service to the small and large scale retailers.

# Use-Case 6: Inventory Management System for Retailers



## Existing Solution :

- <https://ivend.com/retail-inventory-management-software/>
- <https://www.zoho.com/in/inventory/>

## Recommended Technology Stack :

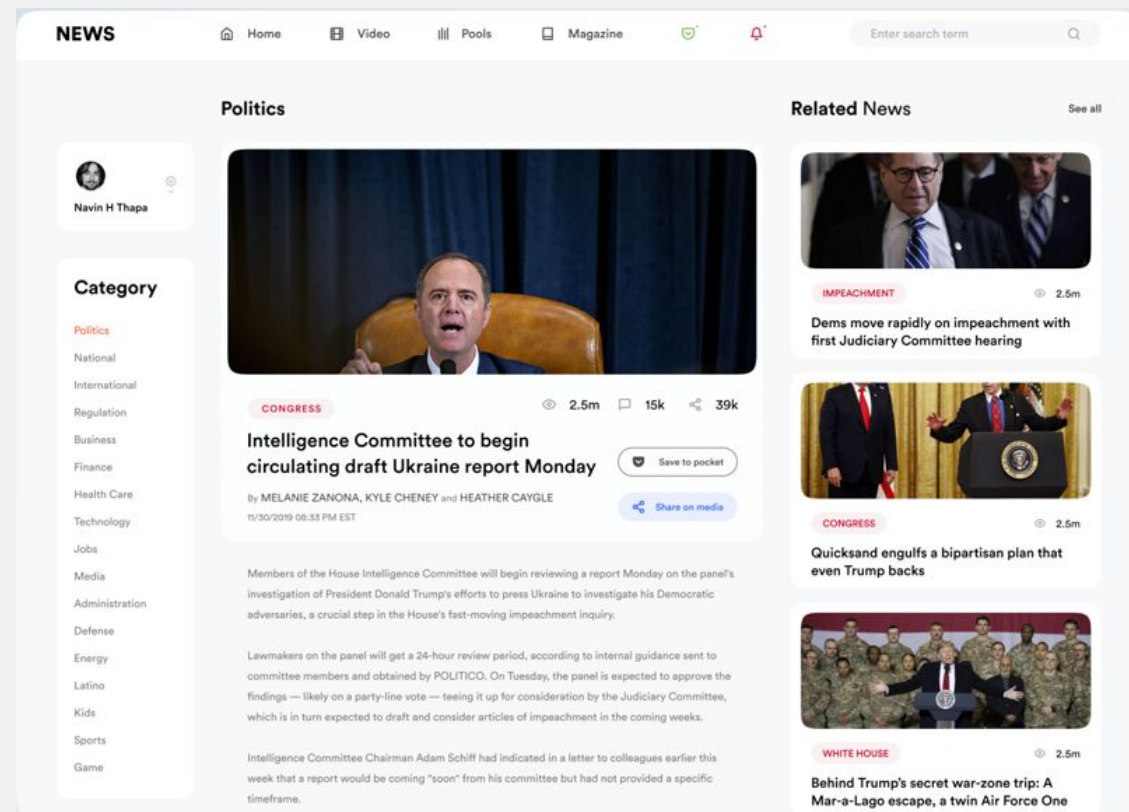
- Python, Flask, IBM DB2, Docker, Kubernetes, IBM Cloud etc..

## References :

- <https://www.researchgate.net/publication/352235223> Inventory management for retail companies A literature review and current trends



## Use-Case 7: News Tracker Application



- As our lives are very busy these days, we often feel we need more than 24 hrs. a day to cope up with everything we have in our schedule.
- Well, that's not possible but reducing the time by changing the conventional method of reading news can help. Just tell us what market news you're interested in and get a quick peek for the day.
- Only read what you feel relevant and save your time. This app helps you to query for all information about Indices, Commodities, Currencies, Futures, Rates, Bonds, etc.... as on official websites.

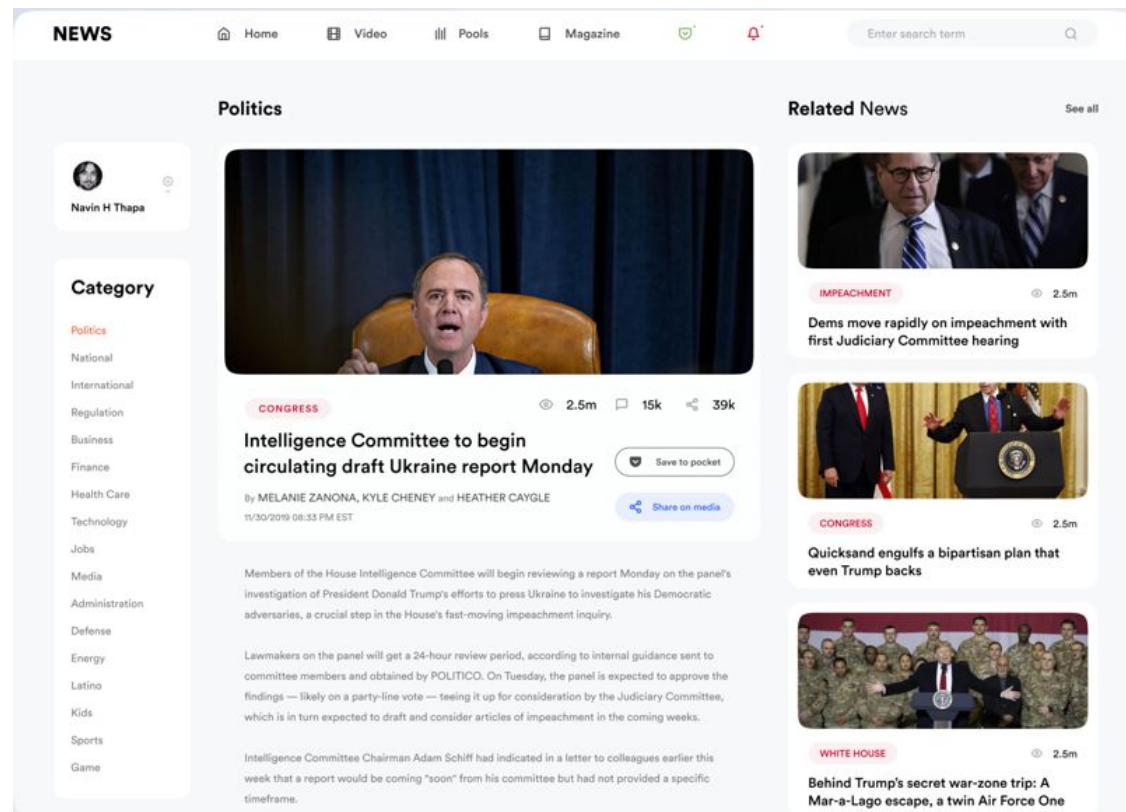
### Social Impact :

- Helps news readers to get required information within less time.

### Business Model/Impact:

- We can include the adds in portal.

# Use-Case 7: News Tracker Application



## Existing Solution :

- <https://www.newsbreak.com/>

## Recommended Technology Stack :

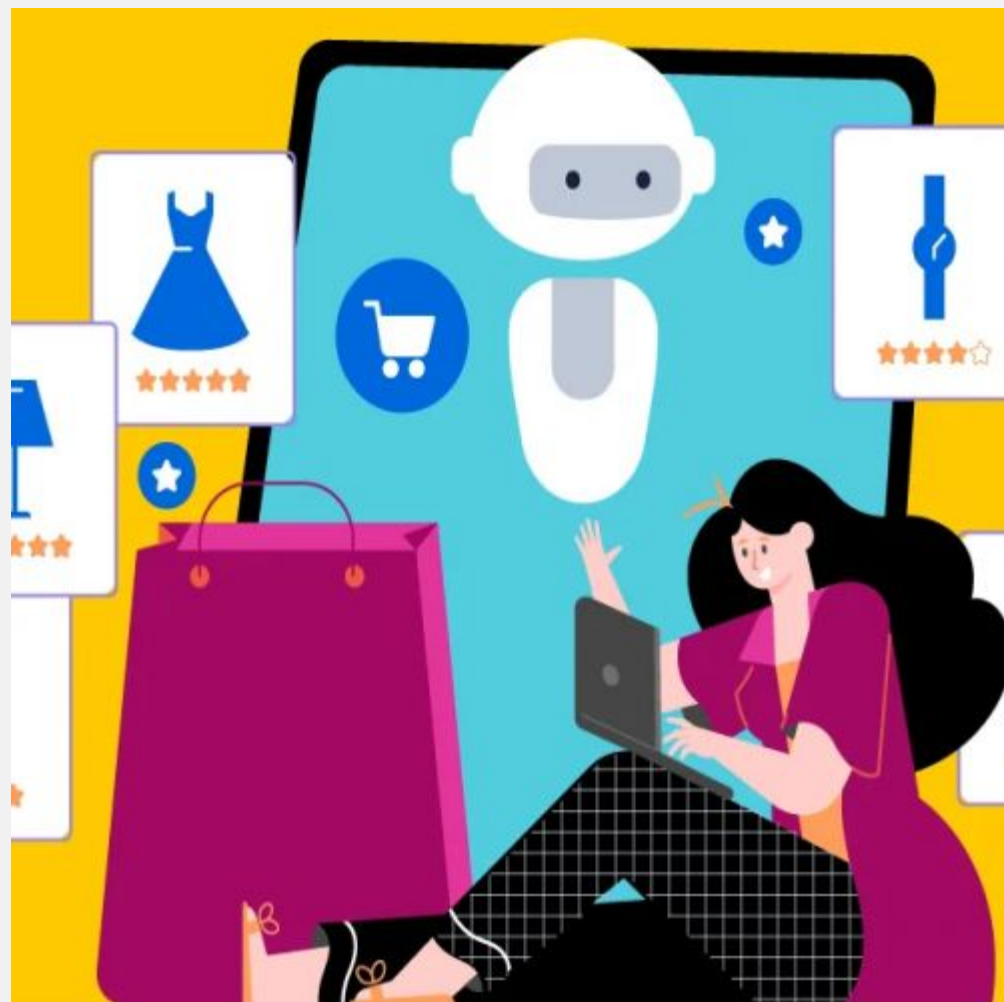
- Python, Flask, IBM DB2, Docker, Kubernetes, IBM Cloud etc..

## References :

- <https://www.researchgate.net/publication/299870645> Exploring mobile news reading interactions for news app personalisation



## Use-Case 8 :Smart Fashion Recommender Application



- In shopping apps navigating to the desired product is very difficult and no proper assistance will be provided.
- Which you can directly do your online shopping based on your choice without any search.
- Instead of navigating to several screens for booking products online the user can directly talk to Chatbot regarding the products.

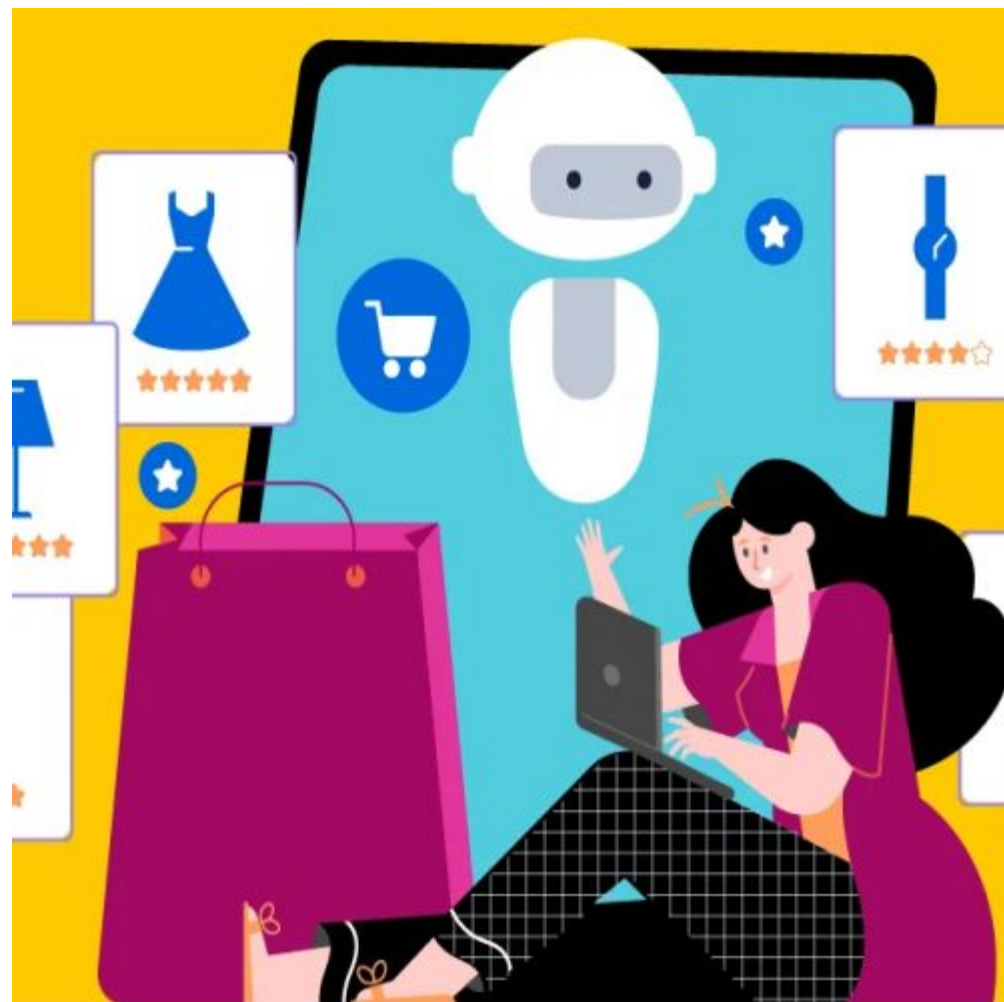
### Social Impact:

- can recommend products that are suitable and can also save lot of time.

### Business Model/Impact:

- Conversion of lead to customer through better experience and feasibility

## Use-Case 8 : Smart Fashion Recommender Application



### Existing Solutions :

- <https://www.trends.ajio.com>

### Recommended Technology Stack :

- Python, Flask, IBM DB2, Docker, Kubernetes, IBM Cloud etc..

### References :

- <https://www.researchgate.net/publication/334078160> An Intelligent Personalized Fashion Recommendation System

## Use-Case 9 : Customer Care Registry



- Customer care is nothing but a service we offer for customers if any queries or issues
- The customers can raise the ticket with detailed description of the issue. An Agent will be assigned to the Customer to solve the problem.
- Customers can view the status of the ticket till the service is provided.

### Social Impact:

- Can help the customer to track each step of their issue.

### Business Impact:

- by providing this service to the companies for better customer support.

## Use-Case 9 : Customer Care Registry



### Existing Solutions:

- <https://www.helpdesk.com/>
- <https://freshdesk.com/>

### Recommended Technology Stack:

- Python, Flask, IBM DB2, Docker, Kubernetes, IBM Cloud, etc.

### Reference:

- [https://www.researchgate.net/publication/257344357\\_Information\\_technology\\_help\\_desk\\_survey\\_To\\_identify\\_the\\_classification\\_of\\_simple\\_and\\_routine\\_enquiries](https://www.researchgate.net/publication/257344357_Information_technology_help_desk_survey_To_identify_the_classification_of_simple_and_routine_enquiries)



# Thank You

