**Cowin App**

**Abstraction:**

This application provides the facilities to the beneficiary to search the vaccination centers and book the appointment for vaccination. They can also download the vaccination certificate. Also provides facilities to the Employee to enter the vaccinated candidate information into the system. Admin can manage the center details and vaccine details.

**Services:**

AdminVaccineCenterService to add, update and delete center details.

AdminVaccineService to add, update and delete vaccine details

Appointment Service to book appointment for vaccination and cancel the appointment.

User service to search for vaccination center by state and districts wise or by pin code and view available slots.

Employee Service to record the vaccinated candidate details into the system, like dose details, center details etc.

**Actors:**

1. Beneficiary – search for the vaccination centers and book appointment in available slots.
2. Employee – enter the vaccination details for the people who gets vaccinated like dose details and vaccine type (covaxin or covishield) into the system.
3. Admin – add/delete/update/view vaccination centers and vaccine type details.

**18c Income tax act App**

**Abstraction:**

This application allows the individual taxpayers to reduce taxable income by making tax saving investments or incurring eligible expenses under Section 80C of Income Tax Act. This application provides the details of tax slabs and rates and also provides the various tax deductions under 18c.

**Services:**

AdminTaxSlabsService to add and update the income tax slabs and rates.

AdminTaxExceptionAndDeductionService to add and update standard deduction amount and maximum deduction amount.

TaxCalculationService to calculate the tax by providing individual gross income details and deductions under 18c details.

Taxpayerservice to view the details of tax slabs and rates and get quotes for tax saving.

**Actors:**

admin:

1. Add and update the income tax slabs and rates.
2. Add/update/delete/view standard deduction and maximum deduction amount.

Taxpayer:

1. View tax slabs and rates
2. Get quote for how much taxable income can save.
3. Calculate the taxable income after providing 18c deductions details.

**Mortgage Management System**

**Abstraction:**

Banks provide loan against mortgage of property on an attractive rate of interest. Businessmen, self-employed professionals, salaried customers are all eligible to apply for the loan. It enables the borrower to apply for loan against a fixed asset. A mortgage is a long-term loan on a specific piece of property. Typical payments are made over periods of 15, 20, or 30 years. Banks, savings and loan associates, credit unions, and mortgage companies are the typical forms of home financing.

**Services:**

Customer service to view various types of mortgages information and apply for loan.

Mortgage Service to add/update interest rates and EMI

Manager service to view/ update/ delete buyer’s information and view/update the status of borrower applied for loan.

Field Officer service to view the information of borrowers applied for loan and add/update enquiry status of a borrower.

Loan Service to view/update/delete loan details and check the EMI status and other loan dues

**Actors:**

**Customer:**

apply for loan.

view various types of mortgages information.

check the EMI status/applied loan status/buyers’ information.

**Field officer:**

view the information of borrowers applied for loan.

add/update enquiry status of a borrower.

view EMI status of a customer/ borrower other loan dues.

**Manager:**

view/update the status of borrower applied for loan.

approve/reject the loan applied by a borrower

view/ update/ delete buyer’s information

**Lok Sabha Elections**

**Abstraction:**

This app facilitates EC members to schedule the Lok Sabha elections, declare the results of the elections with various modules Election Schedule Module, Result Module, Candidate Module and Constituency module. Other user can view the constituency details, candidate details and view the result history.

**Services:**

**Candidate service** to view, add, update, delete candidate with details like candidate name, age, qualification, party details he/she belongs to, etc.

**Constituency Service** to view, add, update, delete constituency details which contains state , constituency name , no of votes etc.

**Schedule Service** to view, add, update and delete election schedule which contains details like nomination date, polling date, number of constituencies etc.

**Result Service** to view, add, update and delete results which contains the details like candidate name, party name, total votes, vote percentage and status like winner, 1st runner up, 2nd runner up etc.

**Actors:**

Admin: add/view/delete/update constituency details, candidate details and party details.

EC members: -schedule, update and delete election schedule and also add/update/delete results.

Users: view candidates, constituency, schedule, results etc.

**Under 19 world cup App**

**Abstraction**

This app is to provide facility to schedule world cup cricket matches for under 19 teams with two modules Admin and organiser. This app provides team details, schedule details, match details. User can view all the team details, match scores and match results and also individual player score.

**Services**

Team Service to add/update/delete/view teams details like team name, country name etc.

Schedule Service to create schedule/update/delete/view schedule details like date, venue, teams, start time etc.

Match Service to add/update/delete scores of individual and total scores, winner details

**Actors**

Admin: add/update/delete/view teams and players

Organiser: add/update/view/delete schedule and add/update/view/delete match scores

User: view all the schedule details, match details, team details

**Fund Raising App**

**Abstraction**

This app is to provide facility to Raise funds online for medical emergencies and social causes with various module Post module, Donation module, User module. The beneficiary posts the details seeking funds. Donors view the post details and can donate the amount. Users can also view the total fund collected for the post.

**Services:**

Post Service can to create/update/delete/view post for seeking help which contains the details like beneficiary details, post description, data of creation, how much fund they need etc.

Donation Service can provide the services to donate amount, to view the donation details etc.

User Service can provide the services to register and view post details and donations.

**Actors:**

Guest should be able to perform below operations:

view all posts, view post details, view donation details

User should be able to perform below operations:

Create Posts for fund raising, View/update/delete Posts, View donation details

Donar should be able to perform below operations:

View Posts, donate amount, View all donations details

**Life Insurance App**

**Abstraction:**

This app is provided facility to buy the life insurance, pay the premium through online and renewal the premium with various modules like Product module, Premium module, customer module. Customer can buy the insurance from different insurance products and pay premium amount and renew the policy.

**Services:**

Product Service is to add/update/delete/view insurance products.

Policy Service is to add/update/delete/view insurance policy and renew the policy

Customer Service is to add nominee details, update the profile.

**Actors:**

Admin – add/update/delete/view insurance product. View policy details, view customer details.

Customer – view insurance products available. Buy the policy. Renew the policy. Pay the premium.

Guest – only view the insurance product details.