IOB APLLICATION TARCTION SYSTEM

1.INTRODUCATION:

1.1 Overview

The traction control system (TCS) detects if a loss of traction occurs among the car's wheels. Upon identifying a wheel that is losing its grip on the road, the system automatically applies the brakes to that individual one or cut down the car's engine power to the slipping wheel. The action of pulling something over a surface (especially a road or a track) is known as traction. The action of drawing of vehicles by electric power derived from overhead wires, third rail, storage batteries or diesel generators mounted on the vehicles is known as electric traction.

By electric traction is meant locomotion in which the driving (or tractive) force is obtained from electric motors. It is used in electric trains, tramcars, trolley buses and diesel-electric vehicles etc. By electric traction is meant locomotion in which the driving (or tractive) force is obtained from electric motors. It is used in electric trains, tramcars, trolley buses and diesel-electric vehicles etc. The three main types of electric traction systems that exist are as follows: Direct Current (DC) electrification system. Alternating Current (AC) electrification system. Composite system

Traction control is most effective when accelerating from a stopped or slowed position, or when trying to accelerate up a slippery hill. This feature provides a lot of benefits to drivers, from making driving smoother to helping them stay in control of the car on icy roads or during rainy weather. Promotes overall healing. Pressure properly applied to the disc releases healing nutrients that speed the body's natural healing process. Traction therapy also increases the effectiveness of other treatments, resulting in faster overall recovery.

1 There are two main types of traction: skeletal traction and skin traction. A third kind, cervical traction, is used to help stabilize fractures in the

What Are the Different Types of Traction?

- Skeletal Traction. Skeletal traction involves placing a pin, wire, or screw in the fractured bone. ...
- Skin Traction. Skin traction is far less invasive than skeletal traction. ...
- Cervical Traction. During cervical traction, a metal brace is placed around your neck.

The voltages used for traction current lines are 110 kV in Germany and Austria and 66 kV or 132 kV in Switzerland. Traction current lines are operated symmetrically

against earth. In the case of 110 kV lines, for example, each conductor has a voltage of 55 kV against earth. The three main types of electric traction systems that exist are as follows: Direct Current (DC) electrification system. Alternating Current (AC) electrification system. Composite system.

1.2 Purpose

We wouldn't recommend turning traction control off during normal road driving – it doesn't matter how good a driver you are, the traction control system can act to prevent a loss of control far faster than you are able to react behind the wheel. **Promotes overall healing**. Pressure properly applied to the disc releases healing nutrients that speed the body's natural healing process. Traction therapy also increases the effectiveness of other treatments, resulting in faster overall recovery.

CHAPTER I POWER SUPPLY FOR TRACTION Para No. 1. The single phase 50 Hz power for the electric traction is obtained from **220/132/110/66 kV Extra High Voltage 3-phase grid system** through step down single phase transformers. Electric-traction systems can be broadly divided into those using **alternating current** and those using direct current. With direct current, the most popular line voltages for overhead wire supply systems have been 1,500 and 3,000.

Electric-traction systems can be broadly divided into those using **alternating current** and those using direct current. With direct current, the most popular line voltages for overhead wire supply systems have been 1,500 and 3,000lt is in our best interest to never turn off the traction control as well as the stability control because **they are meant to save our lives if the car gets out of control**.

In driving instances where you get caught in heavy rain, snowy or icy conditions, or even surfaces where the ground may feel loose, traction control will make a big difference in maintaining your safety. **Traction control can be beneficial when d riving around curves in dangerous weather conditions**

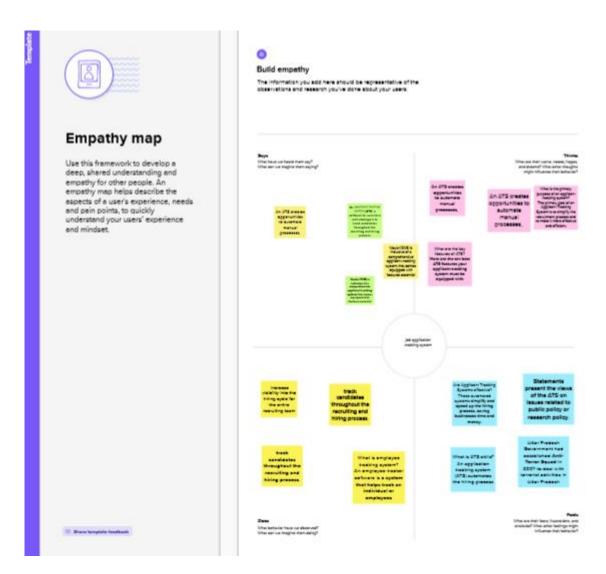
. The traction-control light is **usually a sign that your vehicle is working properly by maintaining traction on a slippery road**, but it can also mean that your car has some damaged sensors or wires. Keep yourself safe on the road by taking your vehicle to a trusted auto repair shop at the first sign of trouble.

Turning off traction control can help when your car is stuck

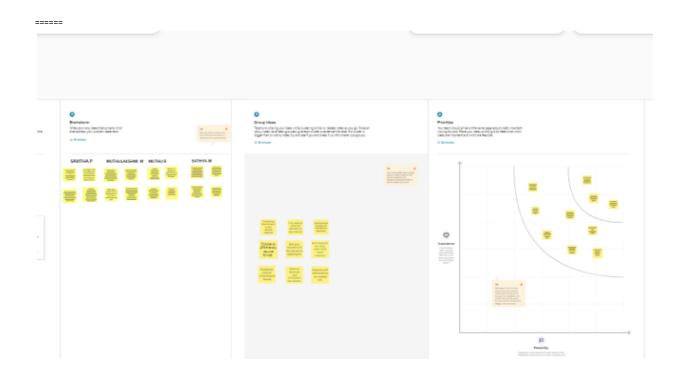
While traction control can help to keep your car moving in a straight line in rainy or snowy conditions, it can also prevent your car from moving forward if it gets stuck in the snow or sand. This is why, when you start your car, chances are the traction control system turns itself on automatically. The traction control system will not damage your car if it is left on. If you are driving without traction control and hazardous weather occurs, your vehicle can spin out and veer off the road.17

2.Problem Definition & Design Thinking

2.1 Empathy map



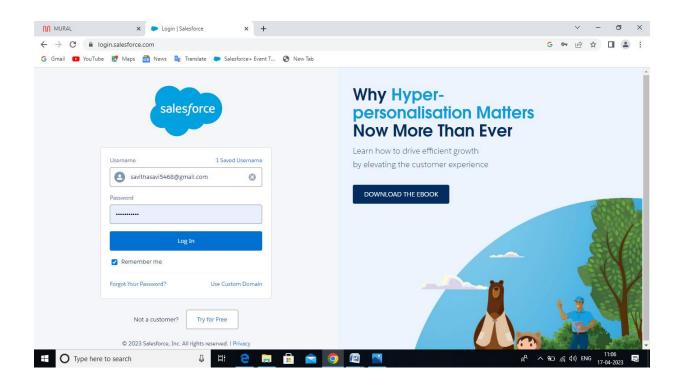
2.2 Ideation& Brainstorming Map



3 .RESULT

This is why, when you start your car, chances are the traction control system turns itself on automatically. The traction control system will not damage your car if it is left on. If you are driving without traction control and hazardous weather occurs, your vehicle can spin out and veer off the road

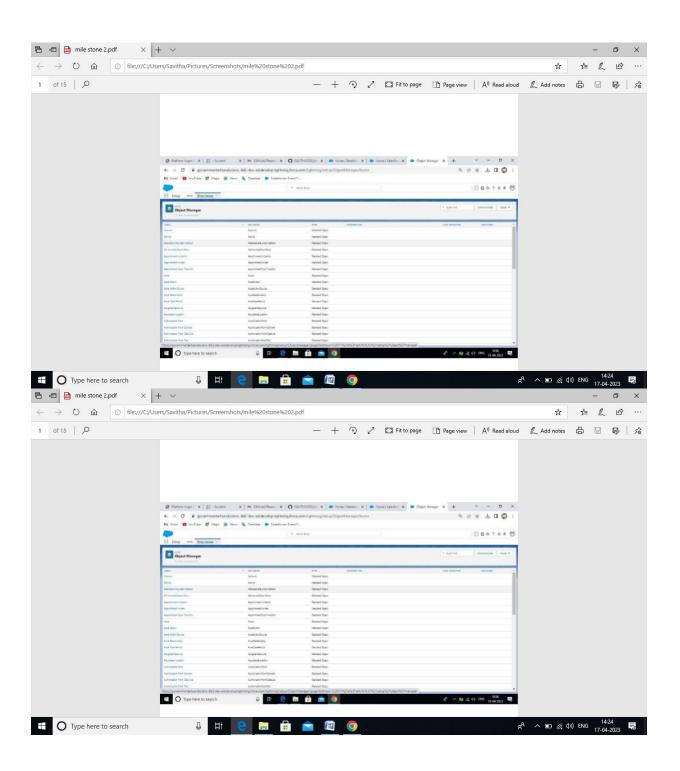
If the plain text version of your resume is missing details from your original resume, has some of its characters saved incorrectly, or looks disorganized (i.e. the heading for your work history appears in the middle of your key skills section), then your resume did not pass the ATS resume screening software test..

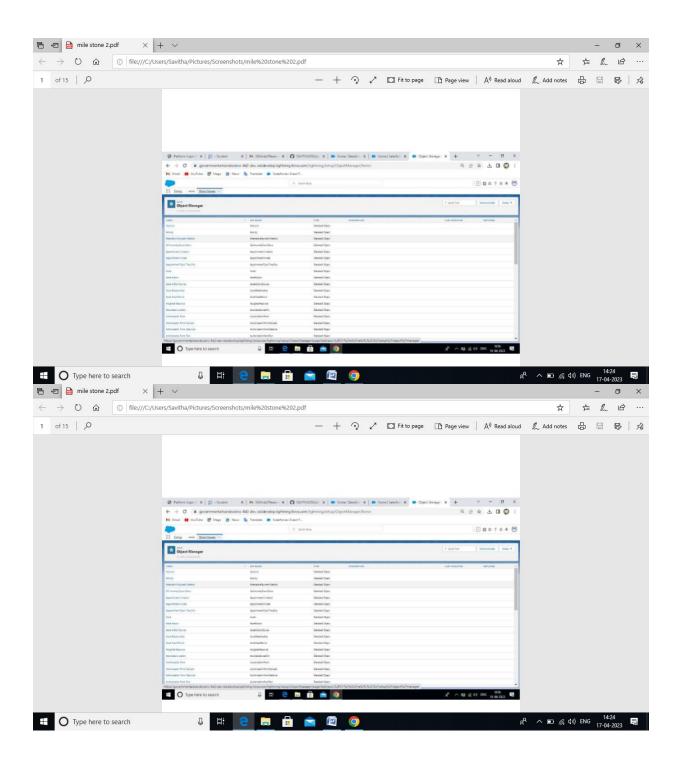


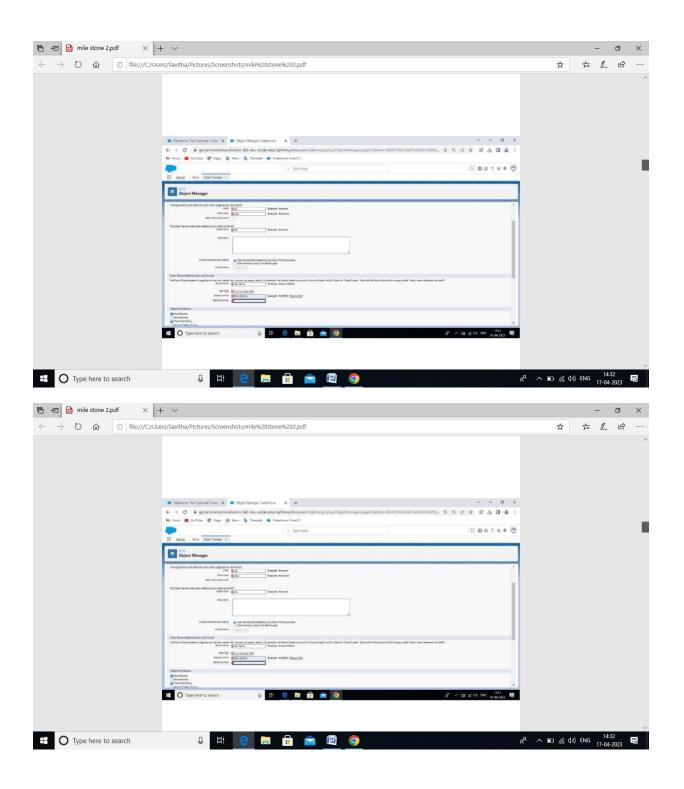
3.1 Date model

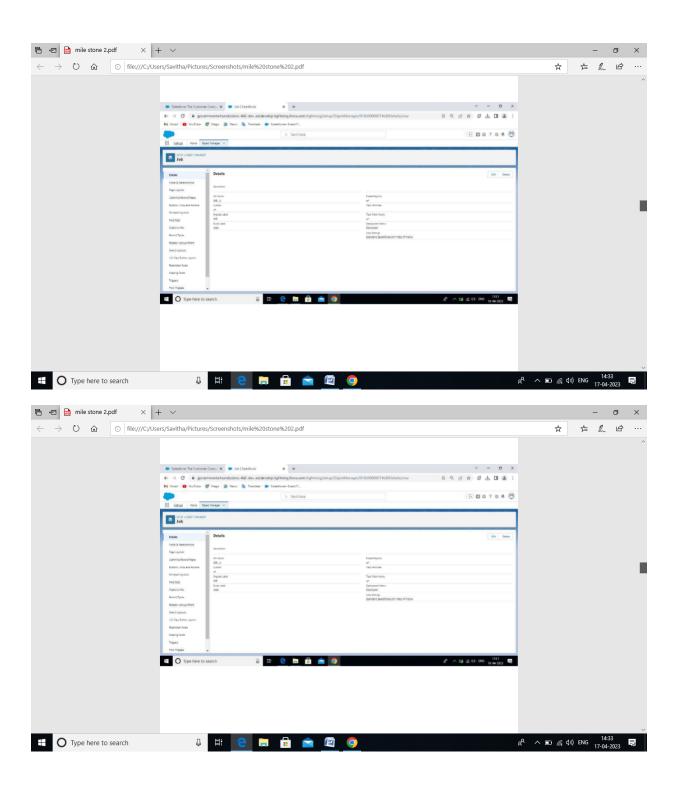
OBJECT NAME	FIELD IN THE OBJECT		
Recuired	Field name	Data type	
	REcuired	Text	
Recuired	Field name	Data type	
	Recuired	Master-Detail	
		relationship	
Job application	Field name	Data type	
	Job application	Text area	
Jobs	Field name	Data type	
	Jobs	Text	

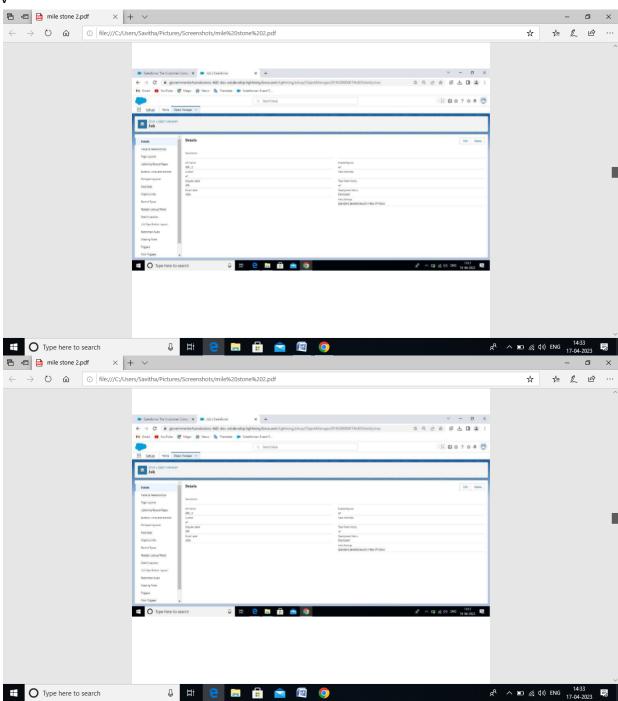
3.2 Screenshots of my project actives

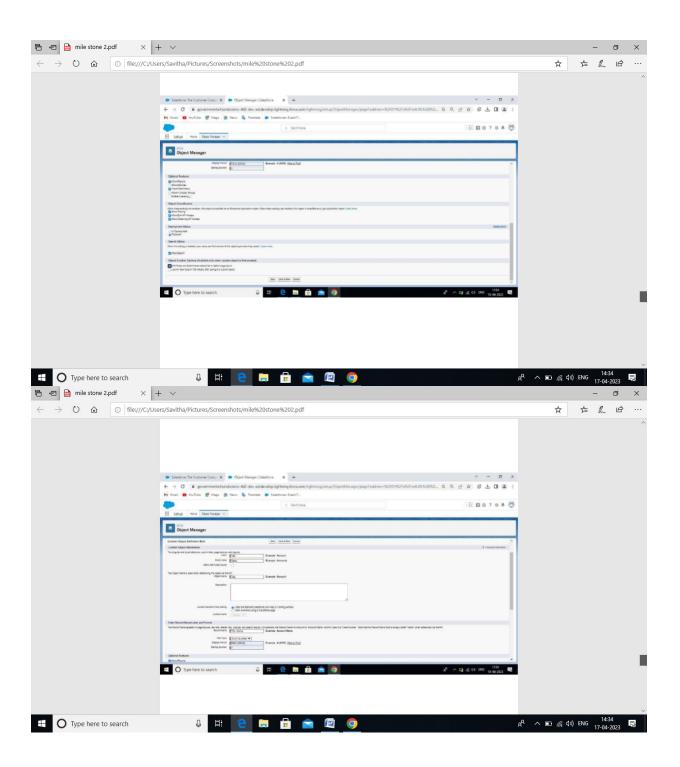


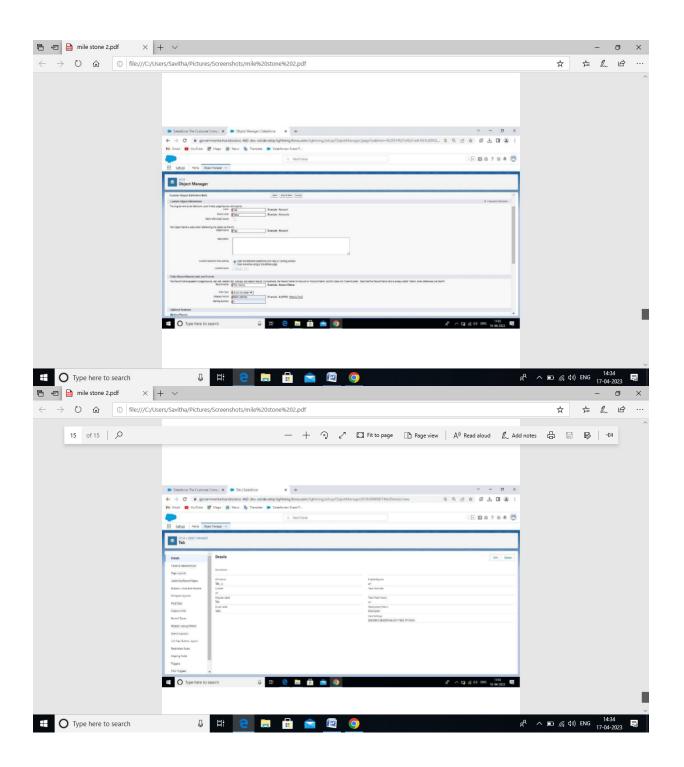


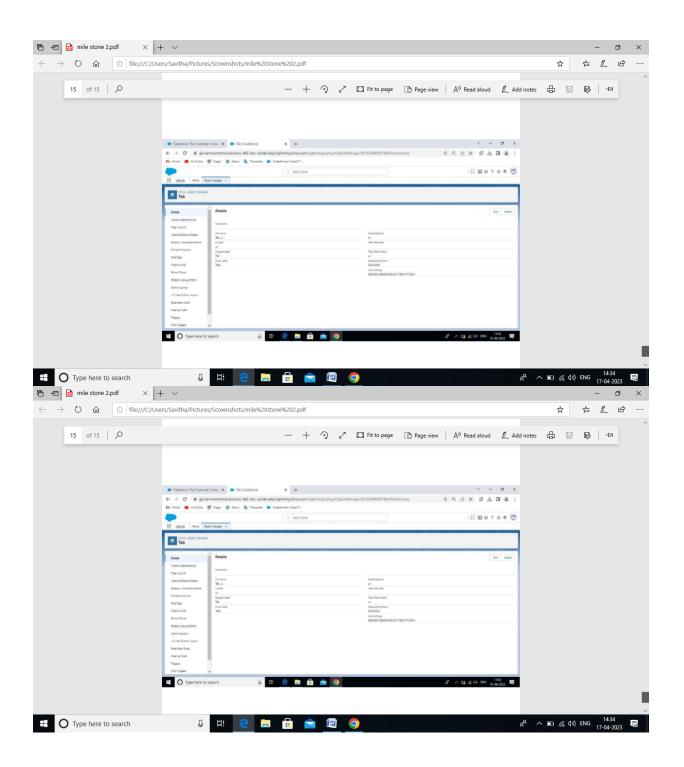


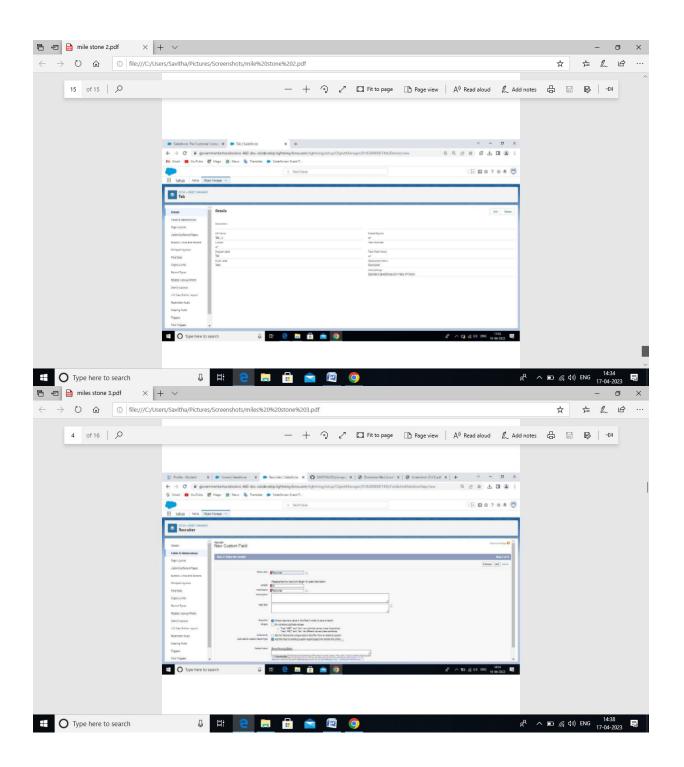


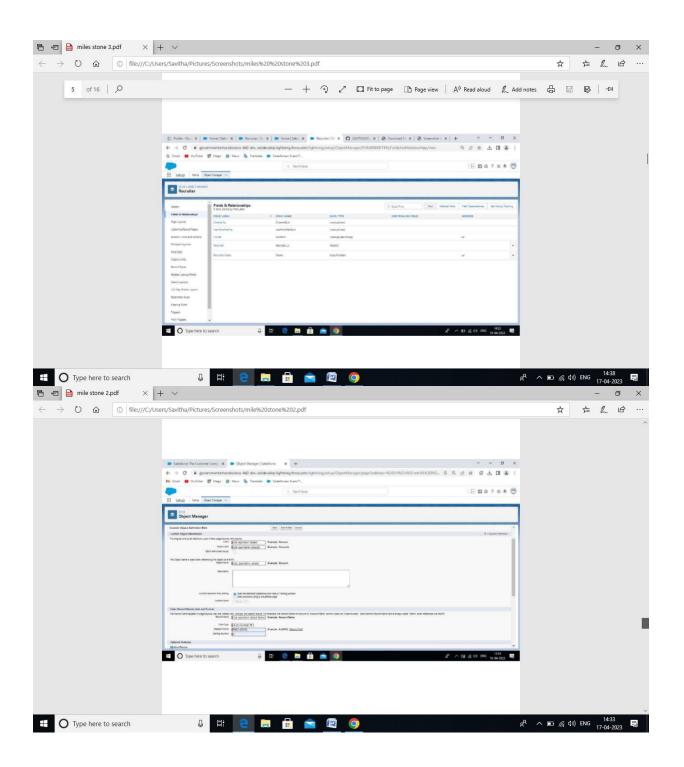


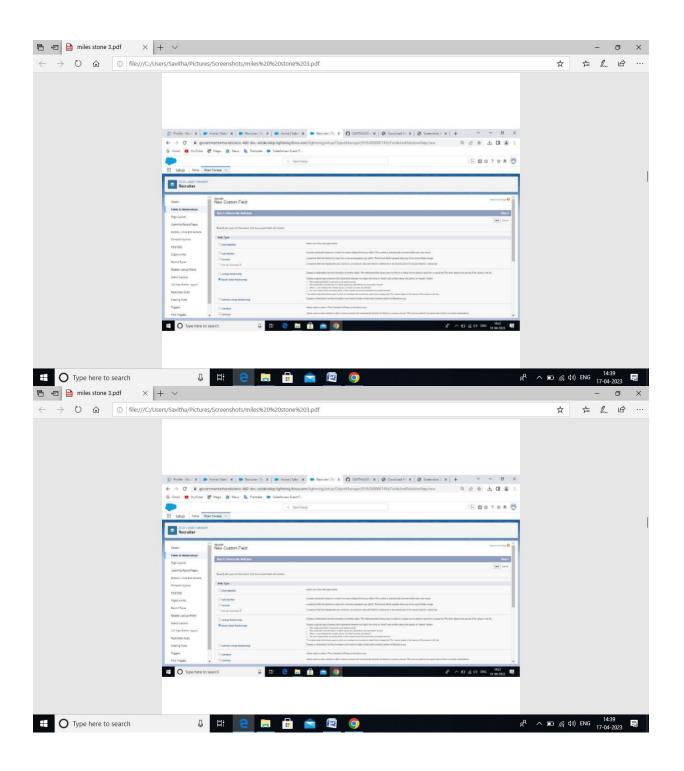


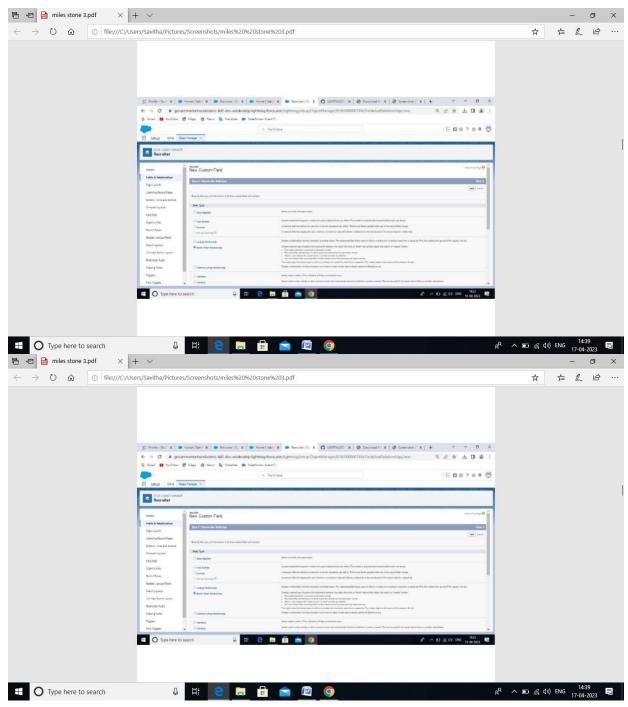


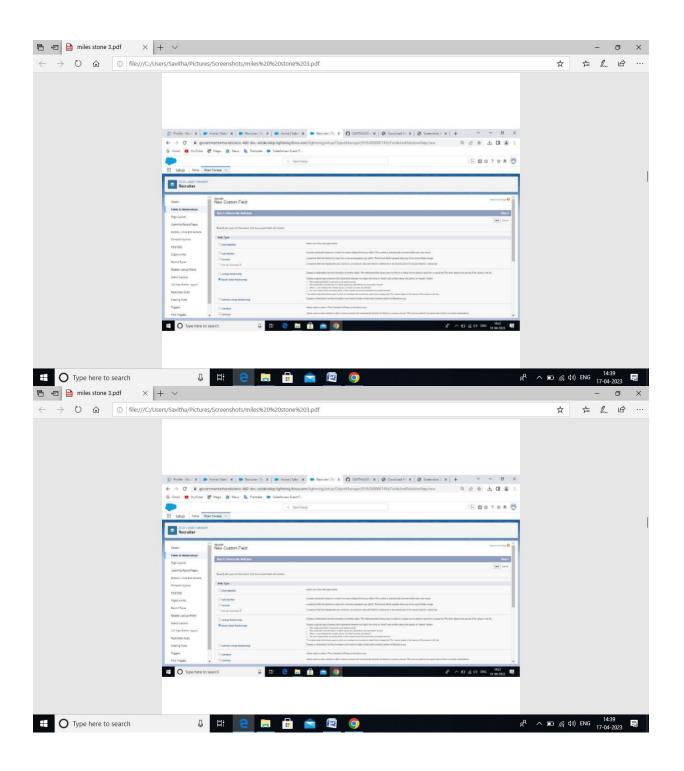


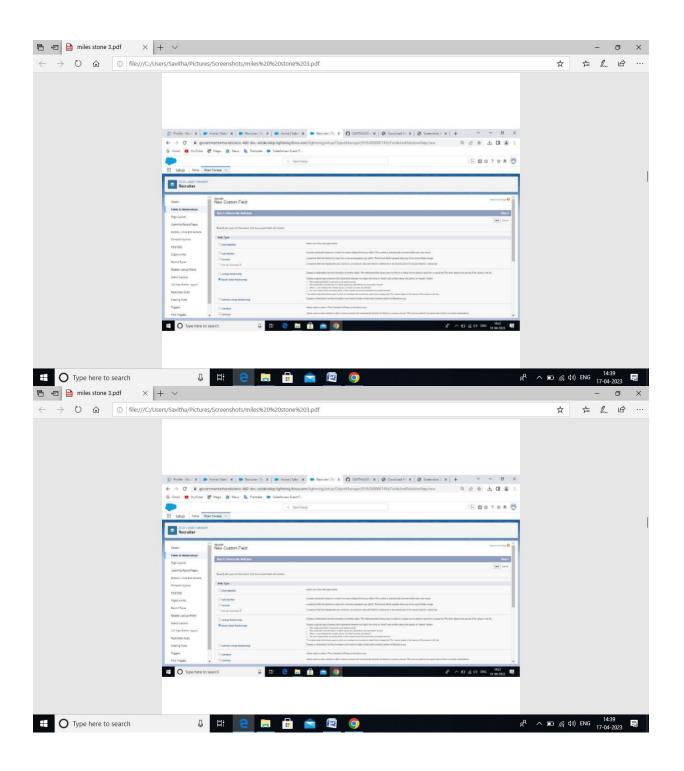


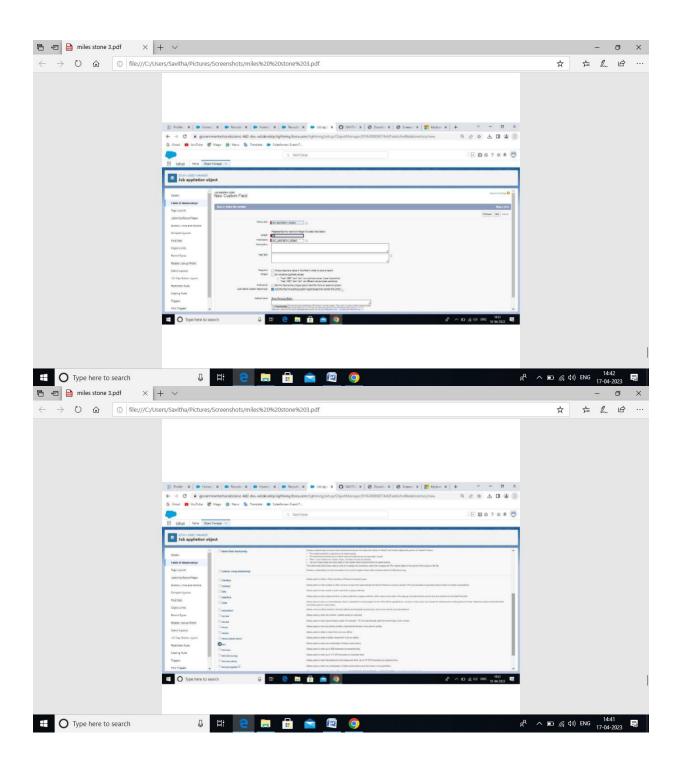


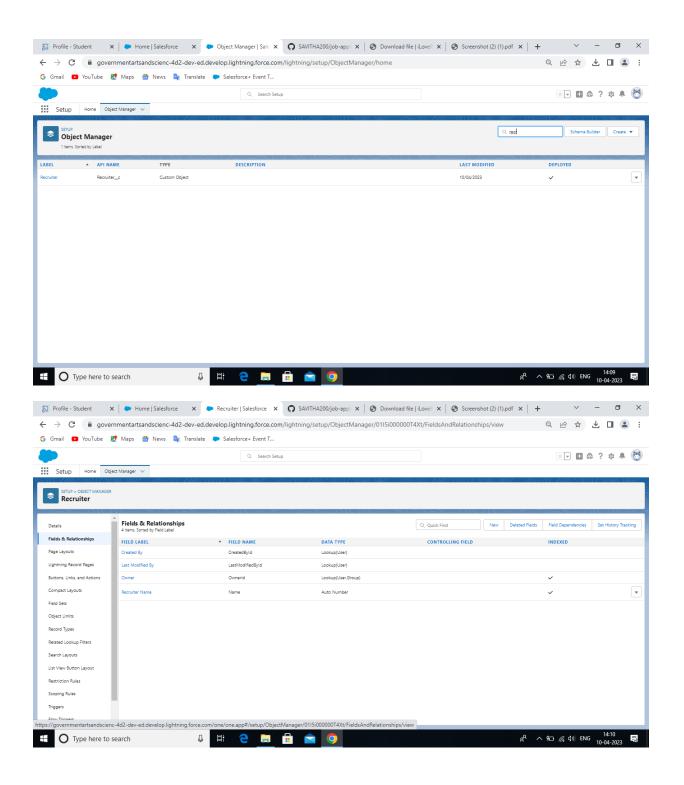


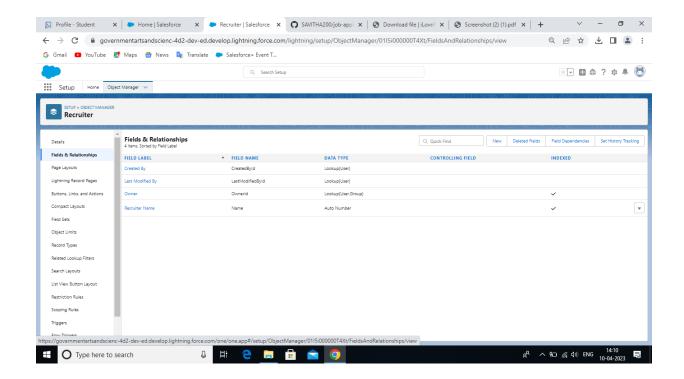


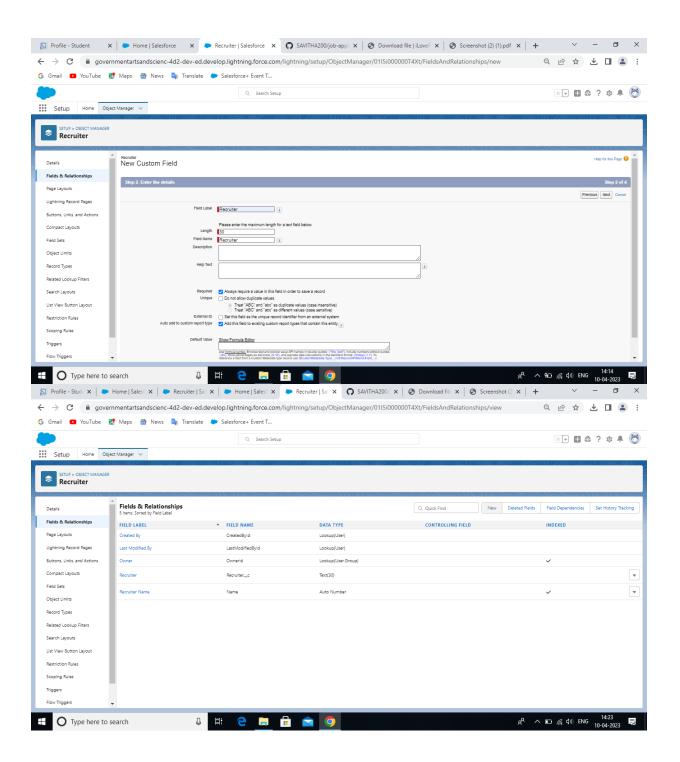


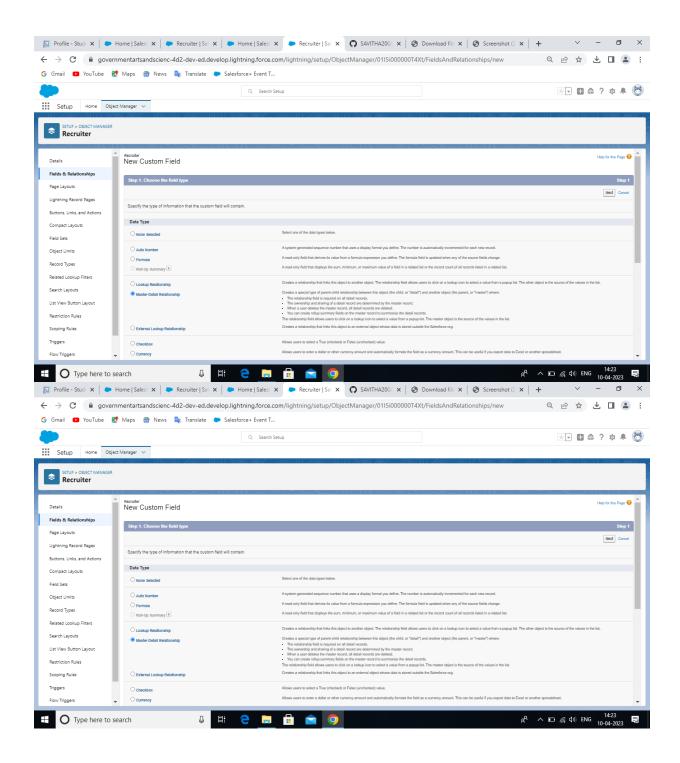


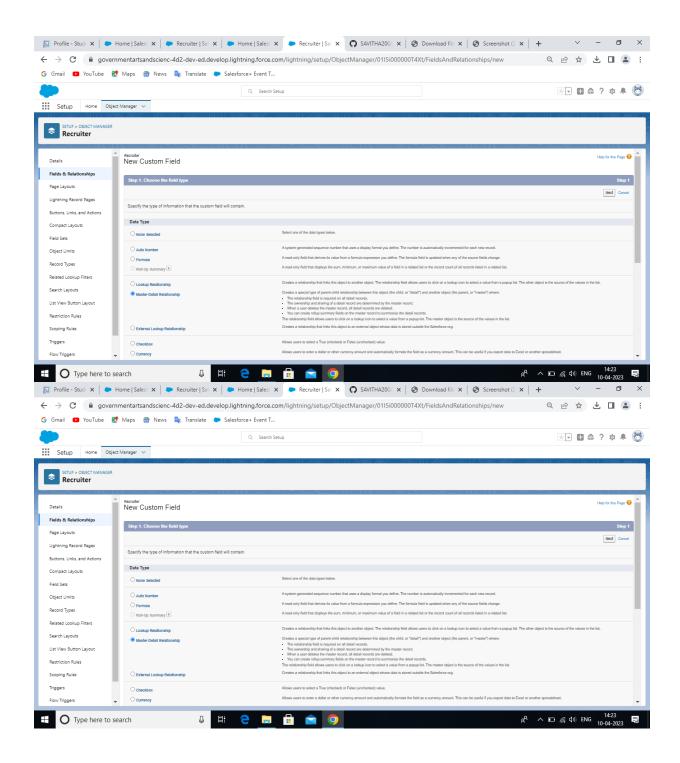


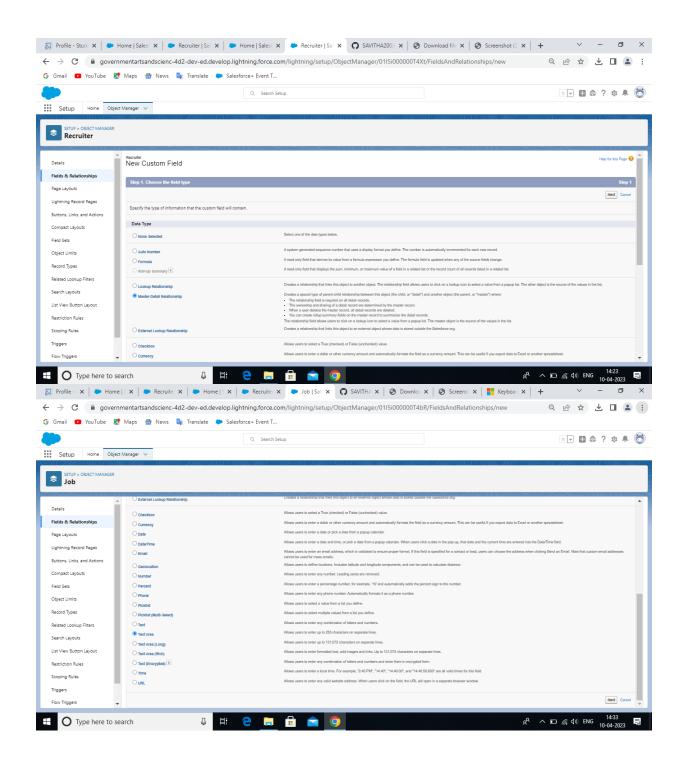


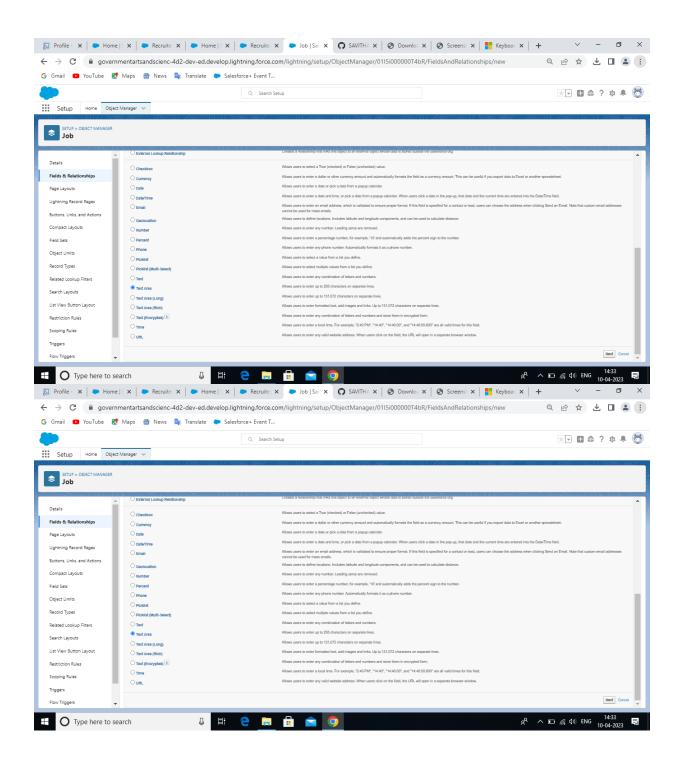


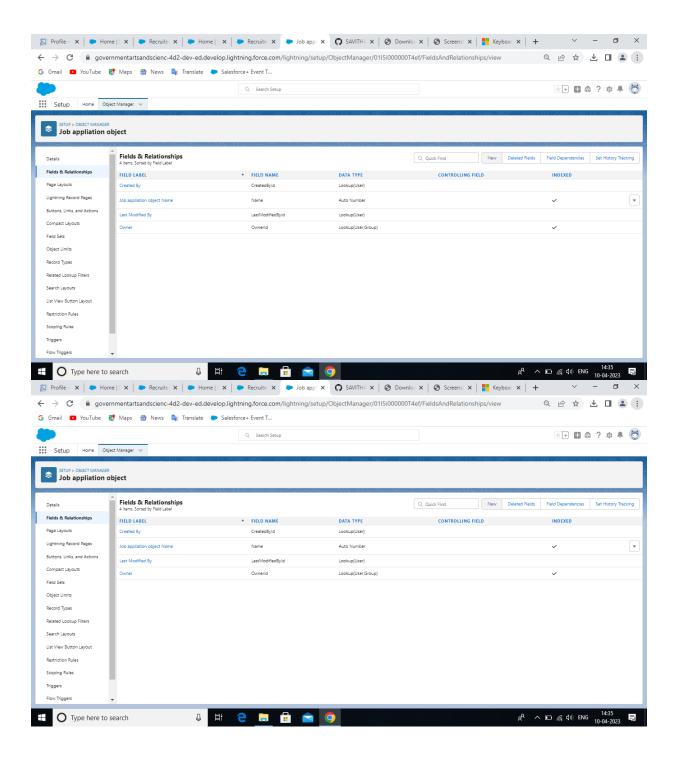


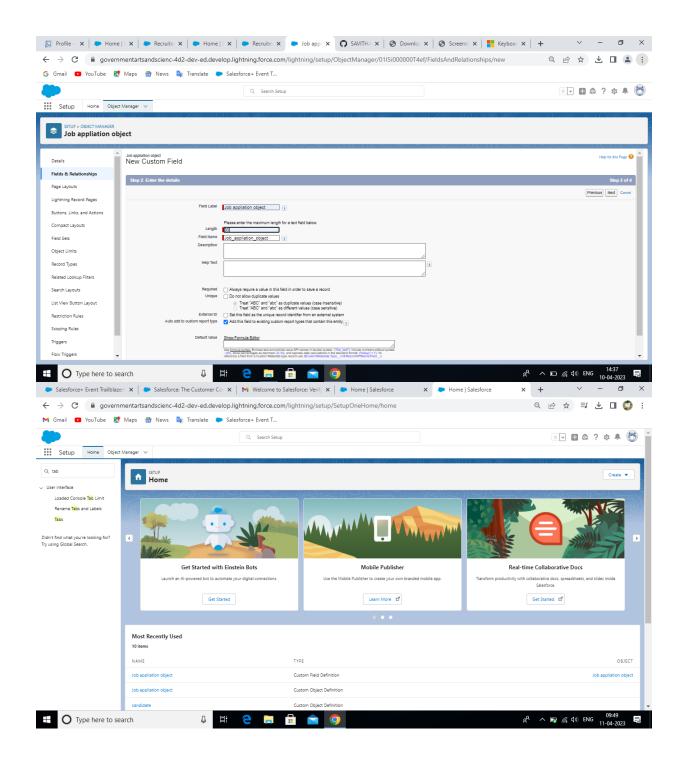


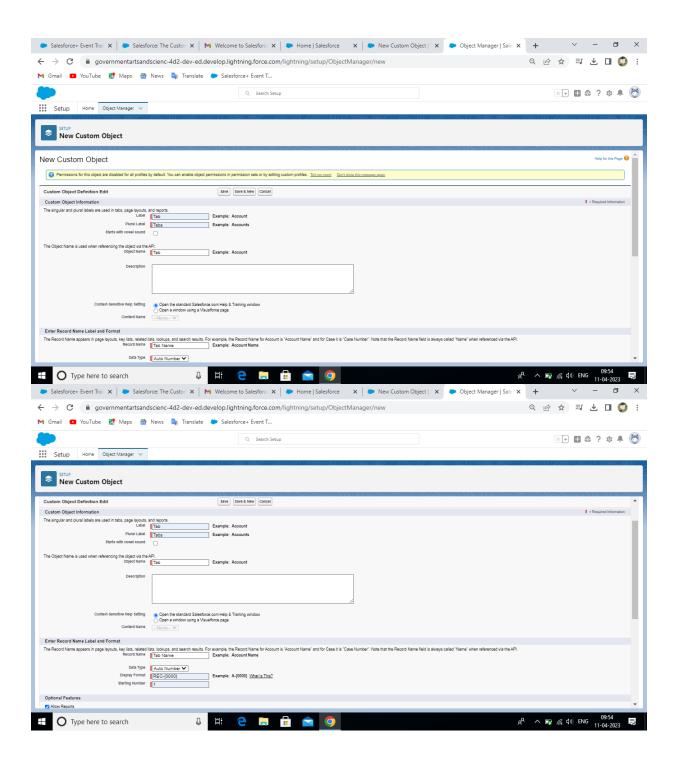


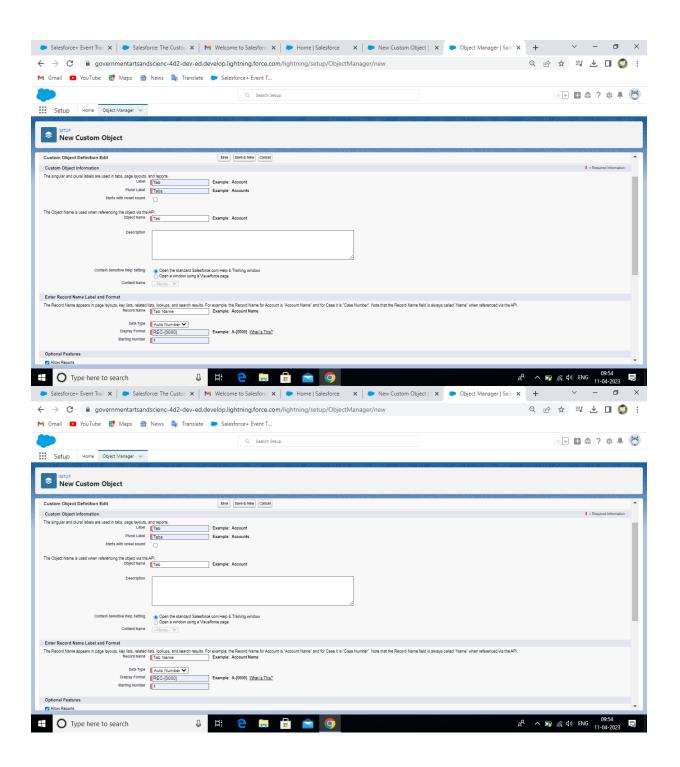


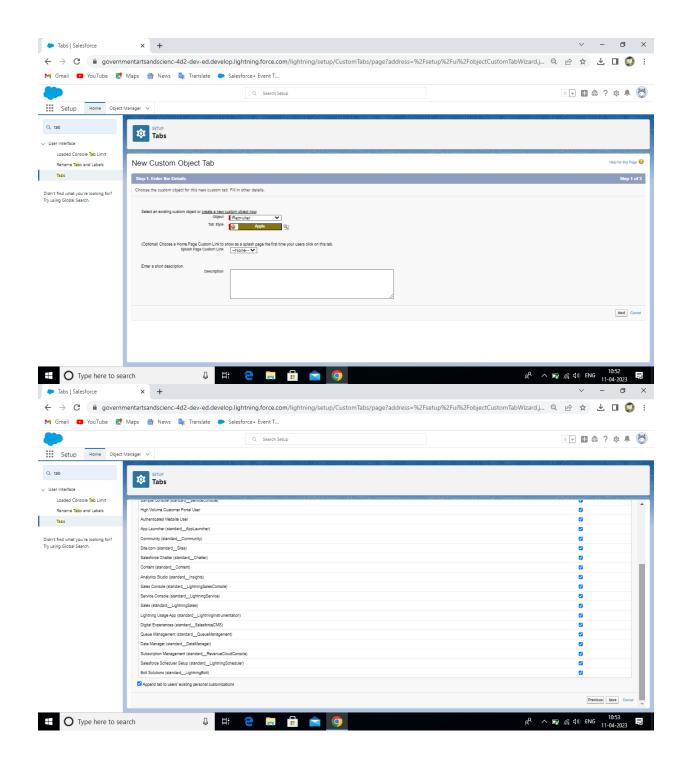


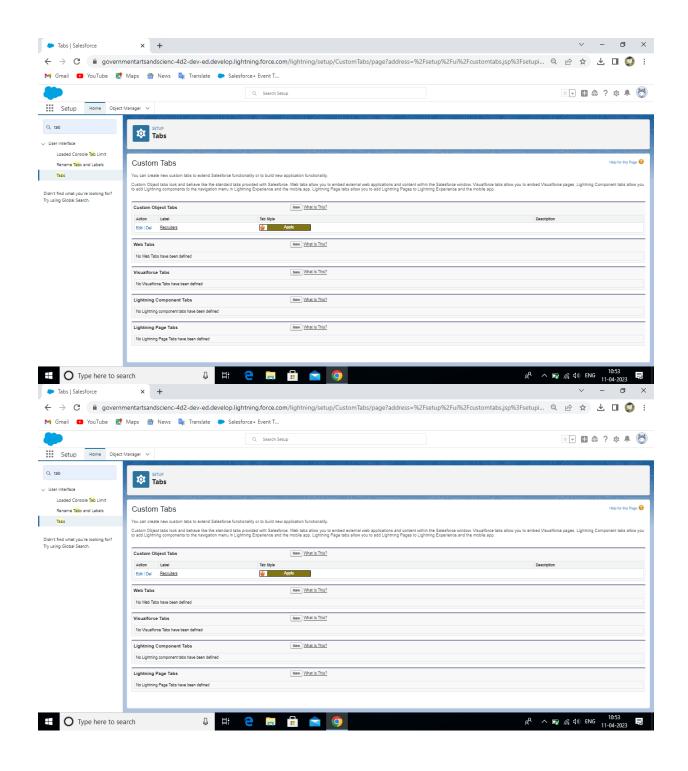


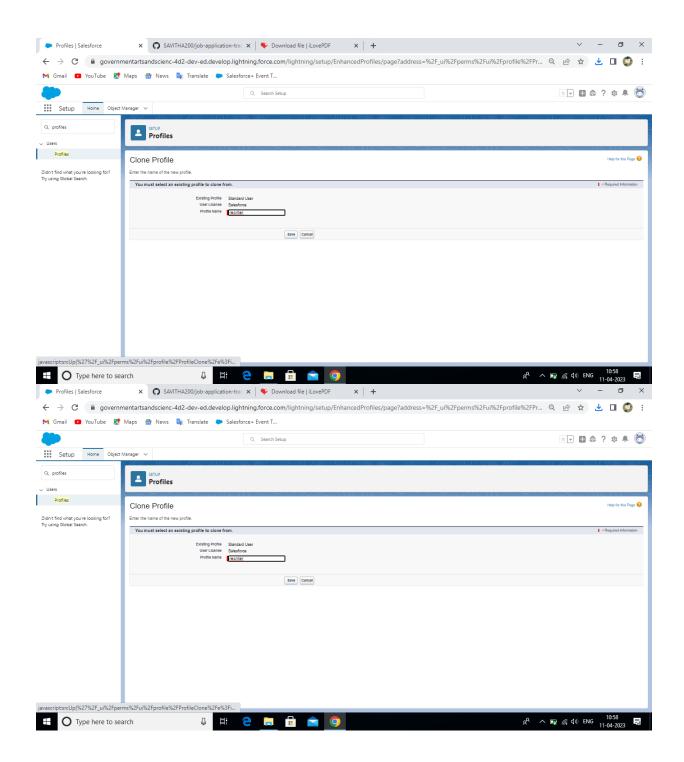


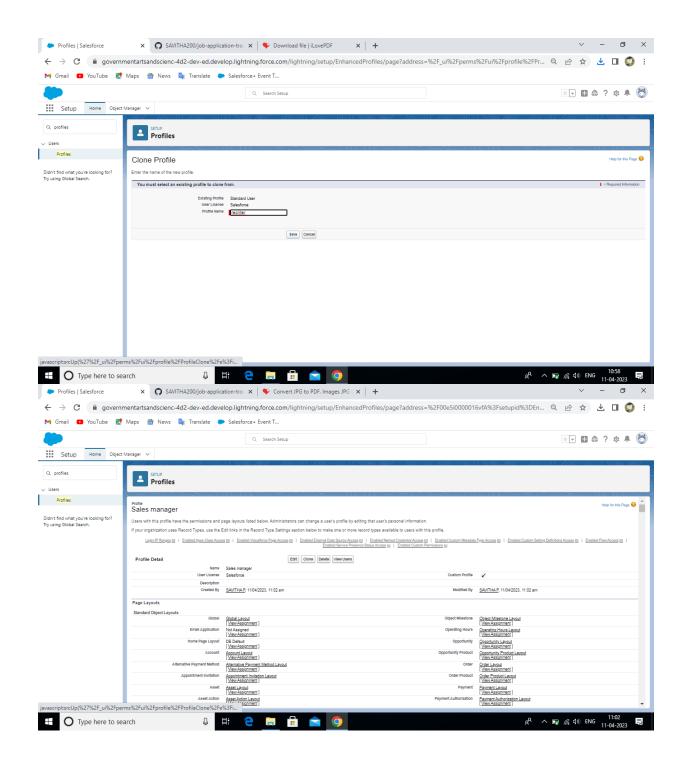


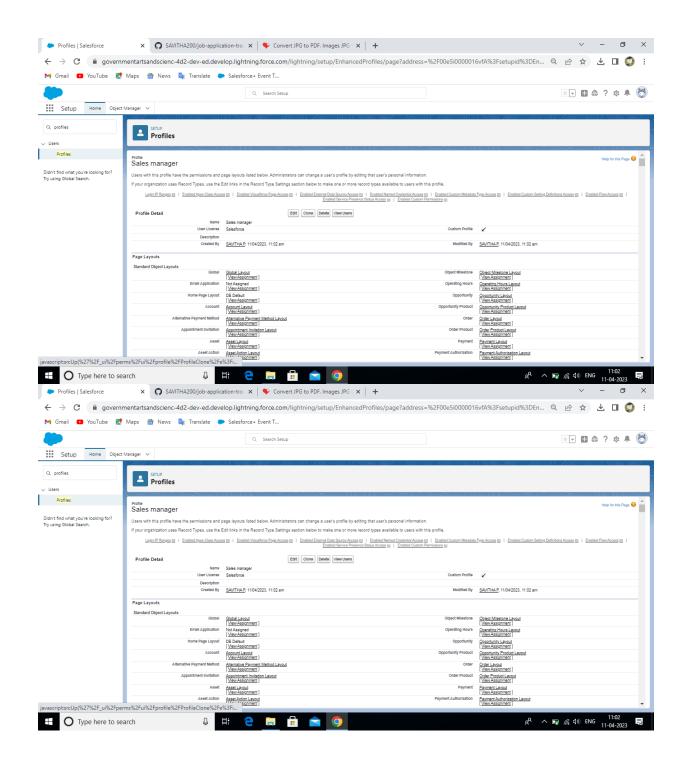


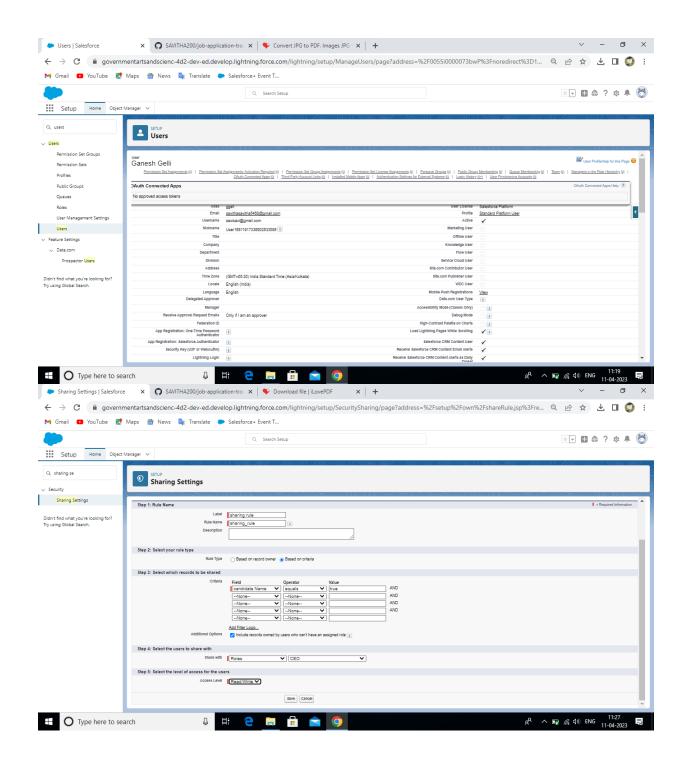


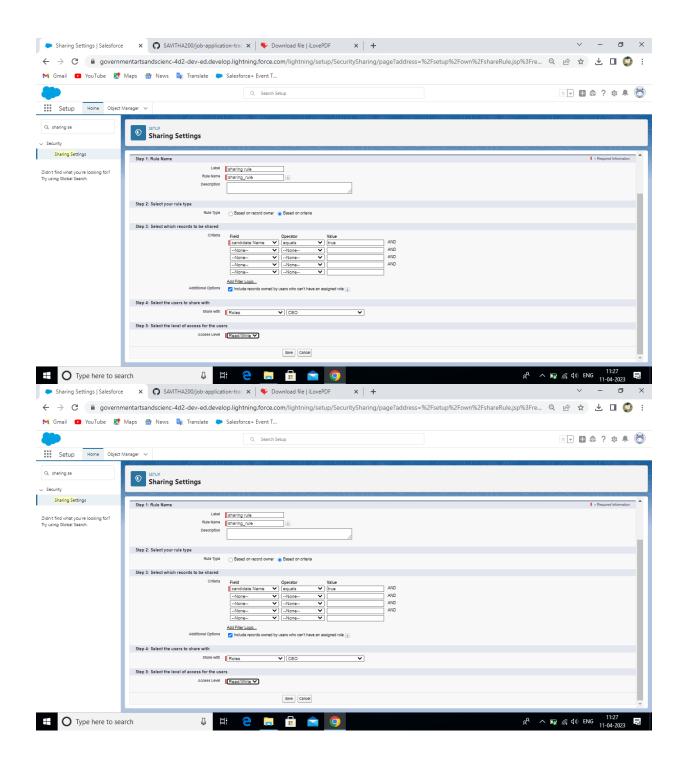


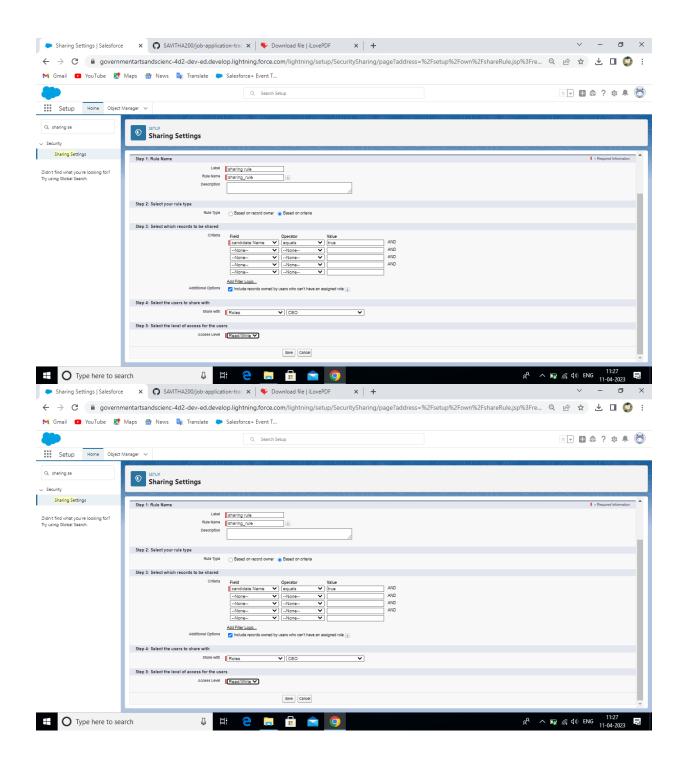


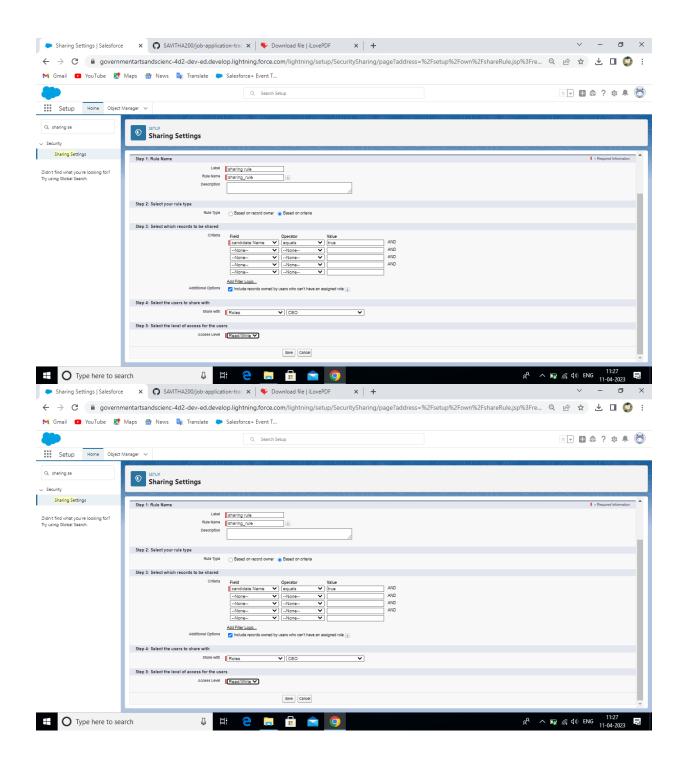


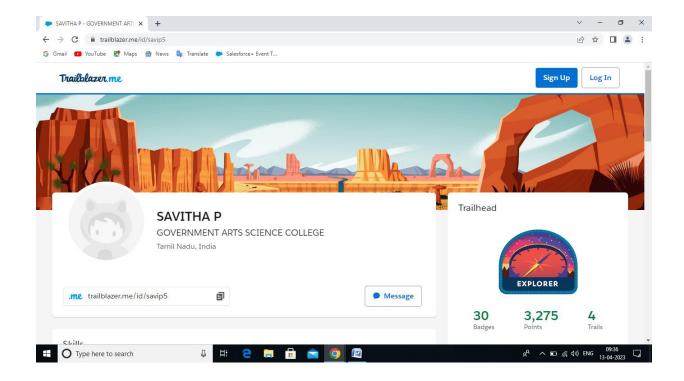












Improve recruiting process efficiency: With an application tracking service software, enterprise, small, and medium-sized business can accomplish so much more, regardless of the size of their recruiting team. ATS tools help recruiters and HR personnel do all the tasks involved with recruiting more efficiently—advertise open positions, manage communication, promote the company brand, collect data, perform analytics, and manage employee referrals. Automation is the key to this efficiency, as an ATS can perform many functions that a recruiter would otherwise have to complete manually. With more free time, recruiters can focus on more strategic initiatives and longer-term projects to improve their hiring processes. An ATS can help companies find best-fit candidates more quickly and reduce the costs involved with hiring.

4. Trailhead profile public URL

Team lead: SAVITHA P- https://trailblazer.me/id/savip5

Team members

1.MUTHULAKSHMI M- https://trailblazer.me/id/muthm26

2.MUTHU R-https://trailblazer.me/id/muthu03

3.SATHYA M- https://trailblazer.me/id/gkrishnan77

5. Advantages & disadvantages

Advantage

Applicant tracking system advantages include enabling you to focus more on tasks that truly require your attention rather than spending manual resources on routine, mundane tasks. Good ATS can save almost 50% of your time by automating these routine tasks. In doing so, your processes get more efficient and faster.

Pro: They Could Save Time. ...

Con: They Could Make You Miss Well-Qualified Applicants. ...

Pro: They Might Cut Down on Hiring Discrimination. ...

Con: Some ATS Tools Have Difficulty Reading Common Fonts. ...

Pro: There Are Lots of Technology Options Available.

DISADVANTAGE

Applicant Tracking System Disadvantages

A Disadvantage of ATS is missing qualified applicants due to wrong keyword selection.

Automatic elimination of resumes that software cannot recognize and interpret is another drawback of ATS.

An Applicant Tracking System Disadvantage is that they are open to manipulation.

Here, we have pocketed some of the major benefits of using ATS: It streamlines hiring. Posts jobs on multiple job boards. Saves time by automating mundane and repetitive tasks. Build your brand. Easy to manage talent pool. It promotes easy collaboration among the hiring team.

An applicant tracking system (ATS) is an automated software that helps companies organize and track candidates for hiring and recruitment purposes. These systems allow businesses to gather information, organize prospects based on experience and skill set, and filter applicants.

Advantages and Disadvantages of Electric Traction

Cleanliness. ...

Maintenance Cost. ...

Starting Time. ...

High Starting Torque
Braking
Saving in High Grade Coal
Lower Centre of Gravity

Absence of Unbalanced Force

It has many advantages over non-electric traction systems such as more clean and easy to handle, no need of coal and water, easy speed control, high efficiency, low maintenance and running costs, etc.

The diesel power plant can only be used to generate small power. The cost of lubrication of a diesel engine is generally high. The diesel power plant does not work satisfactorily under overload conditions for a long period of time

The three main types of electric traction systems that exist are as follows: Direct Current (DC) electrification system.

Alternating Current (AC) electrification system.

Composite system.

Although diesel fuel used to be cheaper than gasoline, it now often costs the same amount or more. Although diesel fuel is considered to be more efficient because it converts heat into energy rather than sending the heat out the tailpipe as gas-powered vehicles do, it doesn't result in flashy high-speed performance. Several factors have contributed to this, including popular demand for diesel, higher production costs due to stricter environmental standards, and a higher federal excise tax on diesel than on gasoline. Traction can be remarkably effective in cases involving an element of compression – and is a highly useful tool in correcting posture and muscle imbalances.

Existing dual-fuel conversions suffer from major increases in carbon monoxide (CO) and hydrocarbon (HC) emissions and loss of fuel efficiency at light loads. This is because they operate unthrottled, so that the air-fuel mixture becomes leaner as the load is reduced.

Environment - Emissions from diesel engines contribute to the production of ground-level ozone which damages crops, trees and other vegetation. Also produced is acid rain, which affects soil, lakes and streams and enters the human food chain via water, produce, meat and fish.06

6.Application

Traction motors are used in electrically powered railway vehicles (electric multiple units) and other electric vehicles including electric milk floats, trolleybuses, elevators, roller coasters and conveyors, as well as vehicles with electrical transmission systems (diesel-electric locomotives, electric hybrid vehicles) Traction transformer is an electrical device which is used in designing and manufacturing of railway system. It transfers the energy from one circuit to another through electromagnetic induction. It substituted the traction system run by fossil fuels years ago. It acts as an integral part of electric traction syste.

Less starting time – Electric locomotives can be stating without any loss of time. Less maintenance cost & time – The maintenance cost of an electric traction system is about half of that of steam traction system and also the time required for maintenance is quite low.

This system provides high starting torque, high acceleration and retardation. Straight electric traction system has high traffic holding capacity and flexibility in operation which is suitable for urban areas. The starting time of straight electric traction system is quite lessDiesel Electric Traction System is employed both for locomotives and motor coaches. As in electric traction, the locomotives are used in main line traction. Motor coaches are employed in branch lines with low traffic densities and are not used in suburban train.

Cost is high because of the high-functioning gear that's involved in traction control can make a car an increasingly expensive purchase. Cost of maintenance. Traction control systems are not ideal for all kinds of situations so its use is lim

7.conclution

From this point of view, a DC electrical traction seems to be more advantageous, because it causes only one adversely effect – electrochemical corrosion. However, electr; ochemical corrosion has no influence on power quality, but it may cause extensive damages. The traction control system (TCS) detects if a loss of traction occurs among the car's wheels. Upon identifying a wheel that is losing its grip on the road, the system automatically applies the brakes to that individual one or cut down the car's engine power to the slipping wheel. The purpose of traction is to guide the body part back into place and hold it steady. Traction may be used to: stabilize and realign bone fractures, such as a broken arm or leg. help reduce the pain of a fracture before surgery.

8. Future scope

Traction Motor Market Analysis and Size

Data Bridge Market Research analyses that the traction motor market which was growing at a value of 12.23 billion in 2021 and is expected to reach the value of USD 20.24 billion by 2029, at a CAGR of 6.50% during the forecast period of 2022-2029Traction limits movement and reduces the fracture to help decrease pain, spasms and swelling. The purpose of traction is to restore and maintain straight alignment and length of bones following fractures..

What Are the Different Types of Traction?

Skeletal Traction. Skeletal traction involves placing a pin, wire, or screw in the fractured bone. ... Skin Traction. Skin traction is far less invasive than skeletal traction. ...

Cervical Traction. During cervical traction, a metal brace is placed around your neck.