

RELATIONAL SCHEMA

-- Table structure for table `canc`

```
CREATE TABLE IF NOT EXISTS `canc` (  
  `pnr` int(11) NOT NULL,  
  `rfare` int(11) DEFAULT '0',  
  PRIMARY KEY (`pnr`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

-- Table structure for table `class`

```
CREATE TABLE IF NOT EXISTS `class` (  
  `cname` varchar(10) NOT NULL,  
  PRIMARY KEY (`cname`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

-- Table structure for table `classseats`

```
CREATE TABLE IF NOT EXISTS `classseats` (  
  `trainno` int(11) NOT NULL,  
  `doj` date NOT NULL,  
  `class` varchar(10) NOT NULL,  
  `fare` int(11) NOT NULL,  
  `seatsleft` int(11) NOT NULL,  
  PRIMARY KEY (`trainno`,`doj`,`class`),  
  KEY `class` (`class`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

-- Triggers `classseats`

```
DROP TRIGGER IF EXISTS `before_insert_on_classseats`;  
DELIMITER //  
CREATE TRIGGER `before_insert_on_classseats` BEFORE INSERT ON `classseats`  
  FOR EACH ROW begin  
  if datediff(curdate(),new.doj)>0 then  
  SIGNAL SQLSTATE '45000'  
  SET MESSAGE_TEXT = 'Check date!!!';  
  end if;  
  if new.fare<=0 then  
  SIGNAL SQLSTATE '45000'  
  SET MESSAGE_TEXT = 'Check fare!!!';  
  end if;  
  if new.seatsleft<=0 then  
  SIGNAL SQLSTATE '45000'  
  SET MESSAGE_TEXT = 'Check seats!!!';  
  end if;  
  end  
  //  
DELIMITER ;
```

```
DROP TRIGGER IF EXISTS `before_update_on_classseats`;  
DELIMITER //  
CREATE TRIGGER `before_update_on_classseats` BEFORE UPDATE ON `classseats`
```

```

    FOR EACH ROW begin
    if datediff(curdate(),new.doj)>0 then
    SIGNAL SQLSTATE '45000'
    SET MESSAGE_TEXT = 'check date!!!';
    end if;
    if new.fare<=0 then
    SIGNAL SQLSTATE '45000'
    SET MESSAGE_TEXT = 'Check fare!!!';
    end if;
    if new.seatsleft<=0 then
    SIGNAL SQLSTATE '45000'
    SET MESSAGE_TEXT = 'Check seats!!!';
    end if;
    end
    //
DELIMITER ;

-- Table structure for table `pd`

CREATE TABLE IF NOT EXISTS `pd` (
  `pnr` int(11) NOT NULL,
  `pname` varchar(50) NOT NULL,
  `page` int(11) NOT NULL,
  `pgender` varchar(10) NOT NULL,
  PRIMARY KEY (`pnr`,`pname`,`page`,`pgender`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- Triggers `pd`
--
DROP TRIGGER IF EXISTS `before_insert_on_pd`;
DELIMITER //
CREATE TRIGGER `before_insert_on_pd` BEFORE INSERT ON `pd`
  FOR EACH ROW begin
  if new.pgender NOT IN ('M','F') then
  SIGNAL SQLSTATE '45000'
  SET MESSAGE_TEXT = 'Enter M:Male F:Female.';
  end if;
  end
  //
DELIMITER ;

DROP TRIGGER IF EXISTS `before_update_on_pd`;
DELIMITER //
CREATE TRIGGER `before_update_on_pd` BEFORE UPDATE ON `pd`
  FOR EACH ROW begin
  if new.pgender NOT IN ('M','F') then
  SIGNAL SQLSTATE '45000'
  SET MESSAGE_TEXT = 'Enter M:Male F:Female.';
  end if;
  end
  //
DELIMITER ;

-- Table structure for table `resv`

```

```

CREATE TABLE IF NOT EXISTS `resv` (
  `pnr` int(11) NOT NULL AUTO_INCREMENT,
  `id` int(11) NOT NULL,
  `trainno` int(11) NOT NULL,
  `doj` date NOT NULL,
  `tfare` int(11) NOT NULL,
  `class` varchar(50) NOT NULL,
  `nos` int(11) NOT NULL,
  `status` varchar(50) NOT NULL,
  PRIMARY KEY (`pnr`),
  UNIQUE KEY `UNIQUE` (`id`,`trainno`,`doj`,`status`),
  KEY `FK_ID` (`id`),
  KEY `FK_TN_DOJ_C` (`trainno`,`doj`,`class`),
  KEY `class` (`class`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=41 ;

-- Triggers `resv`

DROP TRIGGER IF EXISTS `after_insert_on_resv`;
DELIMITER //
CREATE TRIGGER `after_insert_on_resv` AFTER INSERT ON `resv`
  FOR EACH ROW begin
UPDATE classseats SET seatsleft=seatsleft-new.nos where trainno=new.trainno AND
class=new.class AND doj=new.doj;
end
//
DELIMITER ;
DROP TRIGGER IF EXISTS `after_update_on_resv`;
DELIMITER //

CREATE TRIGGER `after_update_on_resv` AFTER UPDATE ON `resv`
  FOR EACH ROW begin
if (new.status='CANCELLED' AND datediff(new.doj,curdate())<=0 ) then
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Cancellation Not Possible!!!!';
end if;
if (new.status='CANCELLED' AND datediff(new.doj,curdate())>0 )then
UPDATE classseats SET seatsleft=seatsleft+new.nos where trainno=new.trainno AND
class=new.class AND doj=new.doj;
if datediff(new.doj,curdate())>=30 then
INSERT INTO canc values (new.pnr,new.tfare);
end if;
if datediff(new.doj,curdate())<30 then
INSERT INTO canc values (new.pnr,0.5*new.tfare);
end if;
end if;
end
//
DELIMITER ;

DROP TRIGGER IF EXISTS `before_insert_on_resv`;
DELIMITER //
CREATE TRIGGER `before_insert_on_resv` BEFORE INSERT ON `resv`

```

```

    FOR EACH ROW begin
    if new.tfare<0 then
    SIGNAL SQLSTATE '45000'
    SET MESSAGE_TEXT = 'Negative balance NOT possible';
    end if;
    if new.nos<=0 then
    SIGNAL SQLSTATE '45000'
    SET MESSAGE_TEXT = 'Negative OR 0 seats NOT possible';
    end if;
    if (select seatsleft from classeats where trainno=new.trainno AND
    class=new.class AND doj=new.doj) < new.nos then
    SIGNAL SQLSTATE '45000'
    SET MESSAGE_TEXT = 'Not enough seats available!!!';
    end if;
    SET new.status='BOOKED';
    end
    //
DELIMITER ;

```

```

DROP TRIGGER IF EXISTS `before_update_on_resv`;
DELIMITER //
CREATE TRIGGER `before_update_on_resv` BEFORE UPDATE ON `resv`
    FOR EACH ROW begin
    if new.tfare<0 then
    SIGNAL SQLSTATE '45000'
    SET MESSAGE_TEXT = 'Negative balance NOT possible';
    end if;
    if new.nos<=0 then
    SIGNAL SQLSTATE '45000'
    SET MESSAGE_TEXT = 'Negative OR 0 seats NOT possible';
    end if;
    if (select seatsleft from classeats where trainno=new.trainno AND
    class=new.class AND doj=new.doj) < new.nos then
    SIGNAL SQLSTATE '45000'
    SET MESSAGE_TEXT = 'Not enough seats available!!!';
    end if;
    end
    //
DELIMITER ;

```

-- Table structure for table `station`

```

CREATE TABLE IF NOT EXISTS `station` (
  `sname` varchar(50) NOT NULL,
  PRIMARY KEY (`sname`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

```

-- Table structure for table `train`

```

CREATE TABLE IF NOT EXISTS `train` (
  `trainno` int(11) NOT NULL AUTO_INCREMENT,
  `tname` varchar(50) NOT NULL,
  `sp` varchar(50) NOT NULL,
  `st` time NOT NULL,

```

```

`dp` varchar(50) NOT NULL,
`dd` varchar(10) DEFAULT NULL,
`dt` time NOT NULL,
PRIMARY KEY (`trainno`),
KEY `sp` (`sp`),
KEY `dp` (`dp`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=11 ;

-- Triggers `train`

DROP TRIGGER IF EXISTS `before_insert_on_train`;
DELIMITER //
CREATE TRIGGER `before_insert_on_train` BEFORE INSERT ON `train`
  FOR EACH ROW begin
if (new.dt<new.st AND new.dd='Day 1') then
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Improper Timings';
end if;
if (new.dp=new.sp) then
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Same Starting & Destination Points not allowed';
end if;
end
//
DELIMITER ;

DROP TRIGGER IF EXISTS `before_update_on_train`;
DELIMITER //
CREATE TRIGGER `before_update_on_train` BEFORE UPDATE ON `train`
  FOR EACH ROW begin
if (new.dt<new.st AND new.dd='Day 1') then
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Improper Timings';
end if;
end
//
DELIMITER ;

-- Table structure for table `user`

CREATE TABLE IF NOT EXISTS `user` (
  `id` int(11) NOT NULL AUTO_INCREMENT,
  `password` varchar(50) NOT NULL,
  `emailid` varchar(50) NOT NULL,
  `mobilenno` varchar(10) NOT NULL,
  `dob` date NOT NULL,
  PRIMARY KEY (`id`),
  UNIQUE KEY `UNIQUEMN` (`mobilenno`),
  UNIQUE KEY `UNIQUEEEI` (`emailid`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=23 ;

-- Triggers `user`

DROP TRIGGER IF EXISTS `before_insert_on_user`;

```

```

DELIMITER //
CREATE TRIGGER `before_insert_on_user` BEFORE INSERT ON `user`
  FOR EACH ROW begin
if (year(curdate())-year(new.dob))<18 then
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Minimum age bar of 18 years.';
end if;
end
//
DELIMITER ;

DROP TRIGGER IF EXISTS `before_update_on_user`;
DELIMITER //
CREATE TRIGGER `before_update_on_user` BEFORE UPDATE ON `user`
  FOR EACH ROW begin
if (year(curdate())-year(new.dob))<18 then
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Minimum age bar of 18 years.';
end if;
end
//
DELIMITER ;

-- Constraints for table `canc`

ALTER TABLE `canc`
  ADD CONSTRAINT `canc_ibfk_1` FOREIGN KEY (`pnr`) REFERENCES `resv` (`pnr`) ON
UPDATE CASCADE;

-- Constraints for table `classseats`

ALTER TABLE `classseats`
  ADD CONSTRAINT `classseats_ibfk_1` FOREIGN KEY (`trainno`) REFERENCES `train`
(`trainno`) ON UPDATE CASCADE,
  ADD CONSTRAINT `classseats_ibfk_2` FOREIGN KEY (`class`) REFERENCES `class`
(`cname`) ON UPDATE CASCADE;

-- Constraints for table `pd`

ALTER TABLE `pd`
  ADD CONSTRAINT `pd_ibfk_1` FOREIGN KEY (`pnr`) REFERENCES `resv` (`pnr`) ON
UPDATE CASCADE;

-- Constraints for table `resv`

ALTER TABLE `resv`
  ADD CONSTRAINT `resv_ibfk_1` FOREIGN KEY (`id`) REFERENCES `user` (`id`) ON
UPDATE CASCADE,
  ADD CONSTRAINT `resv_ibfk_2` FOREIGN KEY (`trainno`, `doj`, `class`)
REFERENCES `classseats` (`trainno`, `doj`, `class`) ON UPDATE CASCADE,
  ADD CONSTRAINT `resv_ibfk_3` FOREIGN KEY (`class`) REFERENCES `class`
(`cname`) ON UPDATE CASCADE;

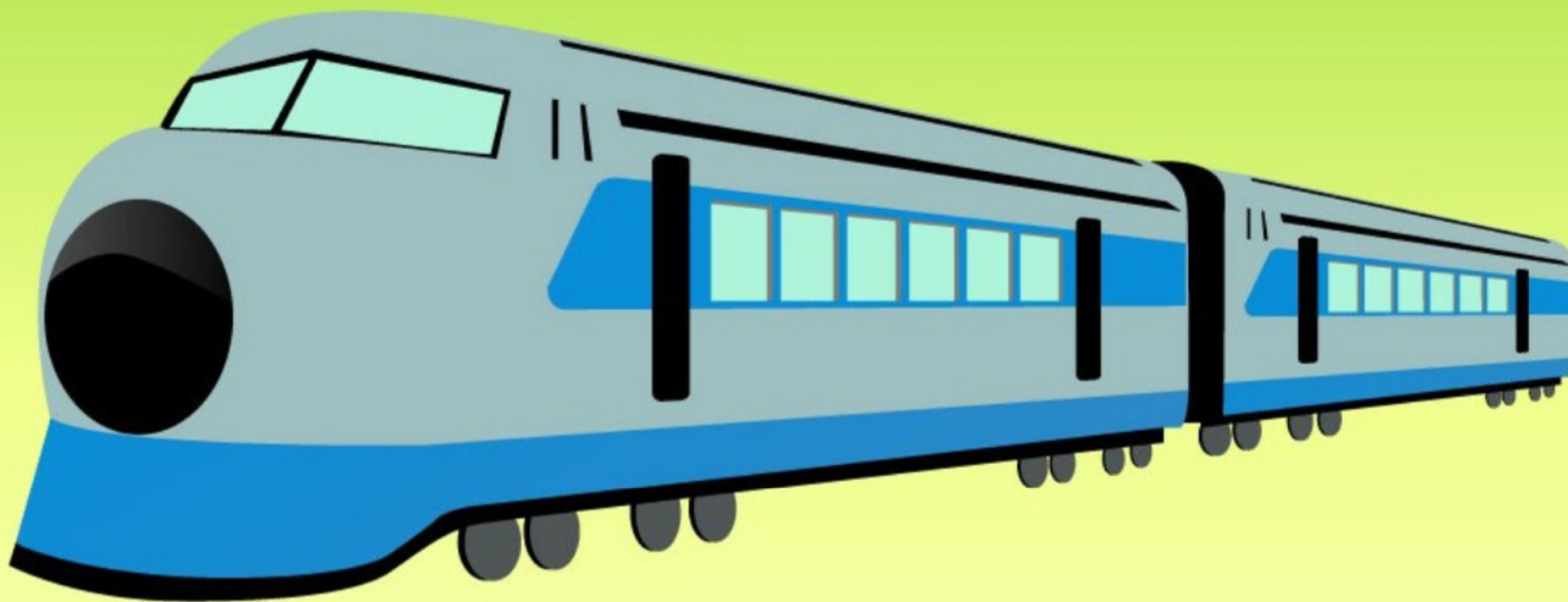
-- Constraints for table `train`

```



```
ALTER TABLE `train`  
  ADD CONSTRAINT `train_ibfk_1` FOREIGN KEY (`sp`) REFERENCES `station`  
  (`sname`) ON UPDATE CASCADE,  
  ADD CONSTRAINT `train_ibfk_2` FOREIGN KEY (`dp`) REFERENCES `station`  
  (`sname`) ON UPDATE CASCADE;
```

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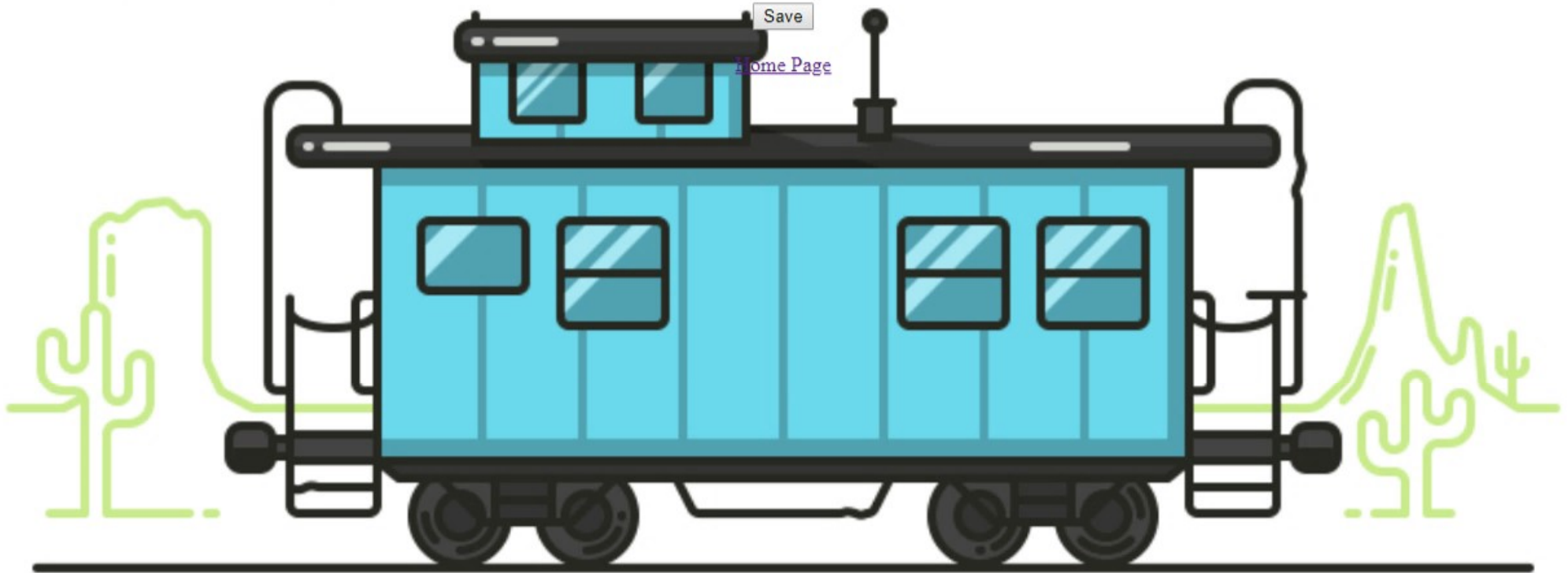
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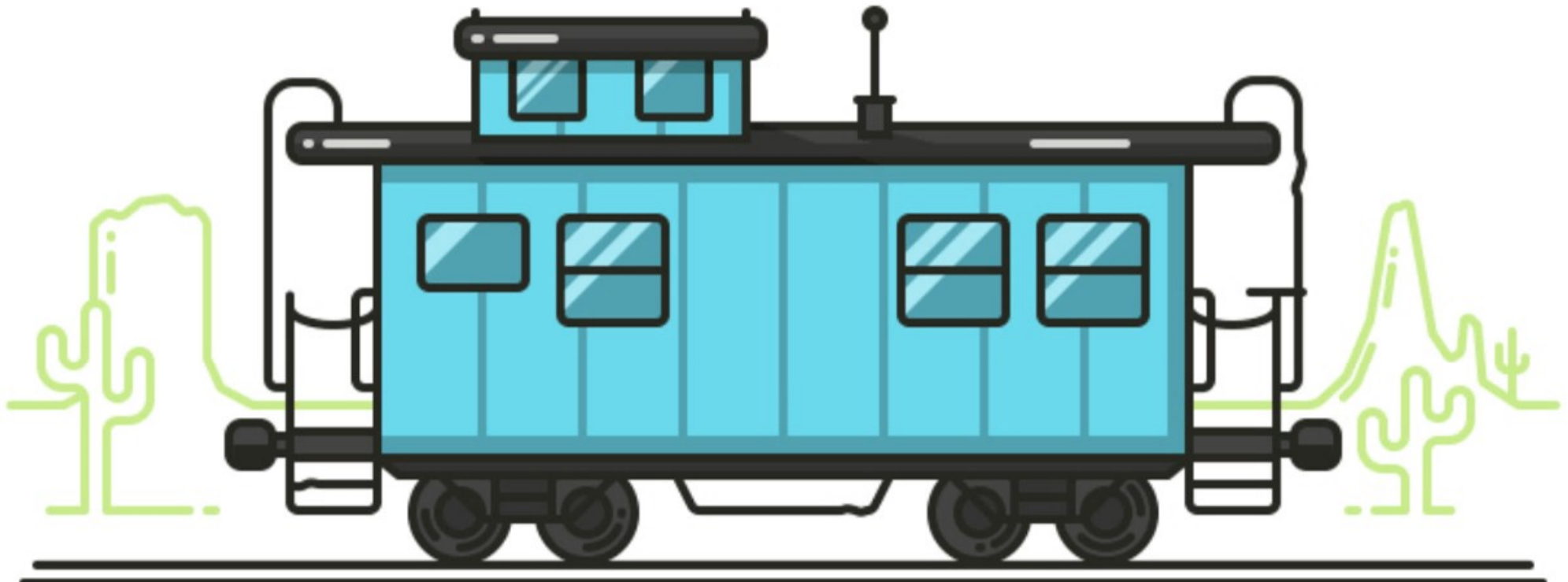
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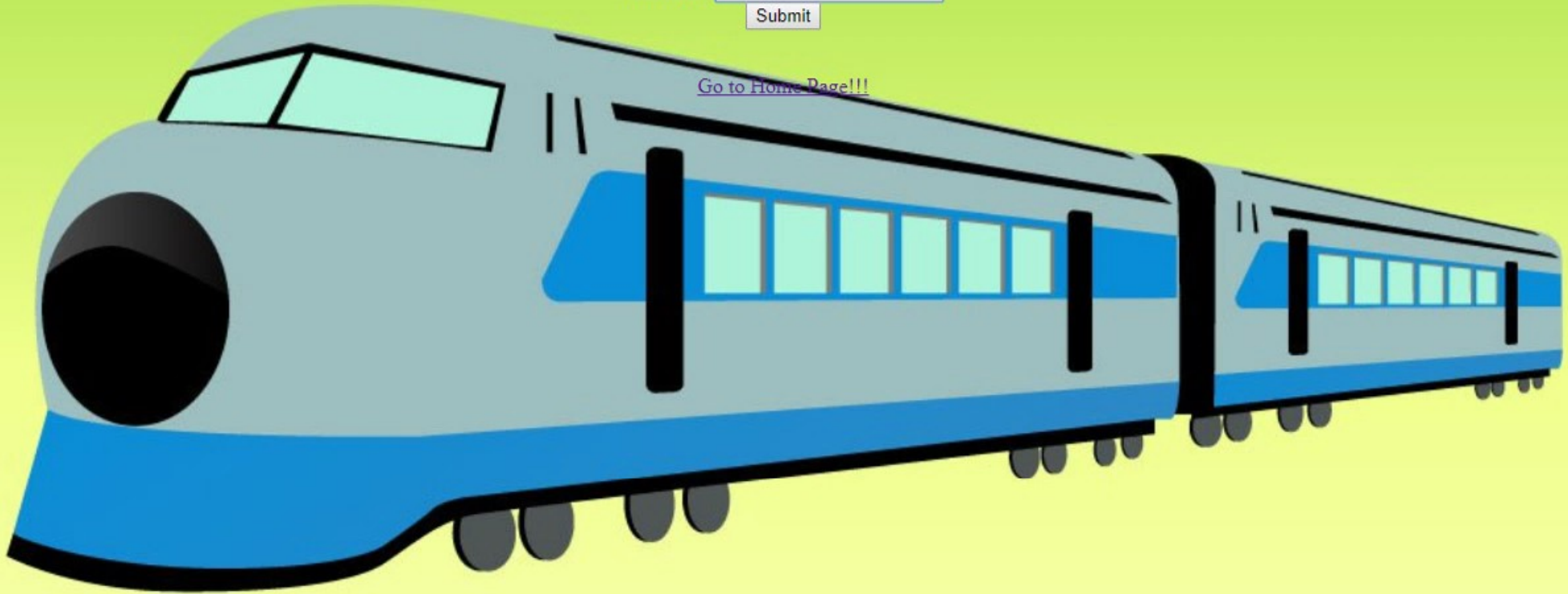
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