## Starbucks Application

Team Project for CMPE 202: Software Systems Engineering (Spring 2019)

#### MEMBERS:

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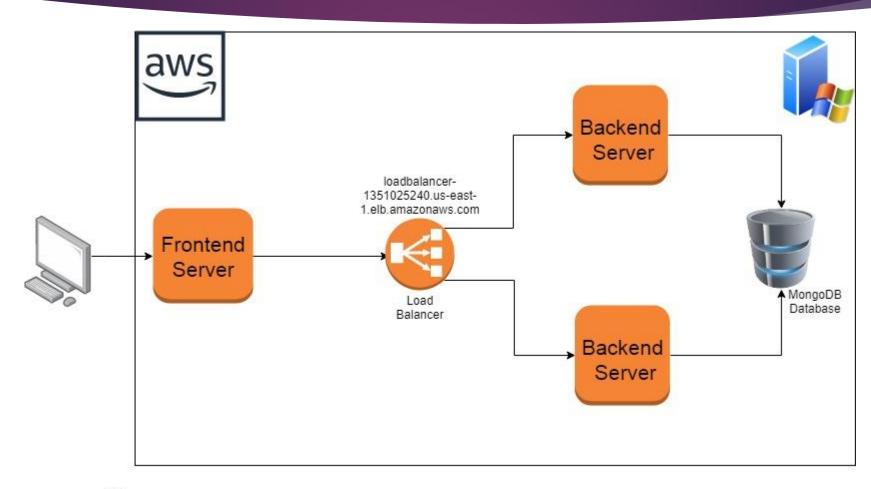
Shravani Pande (013849264)

Nehal Sharma(013849290)

### Components Implemented

- Individual components.
- Authentication API: Implemented by Pranjal
- Add Card API: Implemented by Rachit
- Manage Order API: Implemented by Shravani
- Make Payment API. Implemented by Nehal
- Remove Card API: Implemented by Arkil
- ► Tasks completed for Extra Credit.
- Deploy API to AWS in an Auto Scaled EC2 Cluster with Load Balancer
- Implement Web "Front-End" Deployed to Heroku for Starbucks Payment Card management

### System Architecture



### Authentication API

① Not secure | ec2-18-204-130-151.compute-1.amazonaws.com:3000

#### Welcome to Starbucks

**Enter Passcode** 



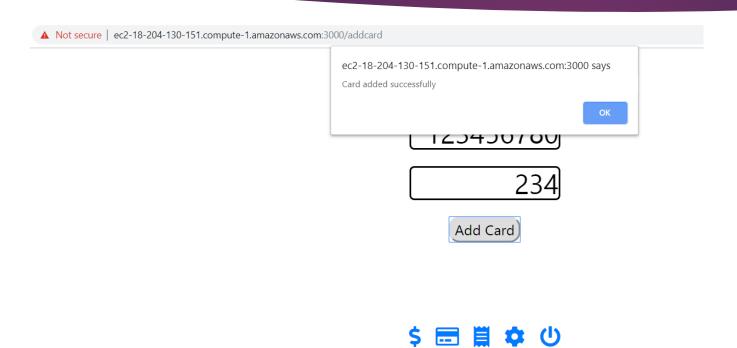






```
app.post('/pinValidation', (req, res)=>{
   const {pin} = req.body;
   console.log(pin);
   if(pin === '1234'){
      res.status(200).send(true);
   }
   else{
      res.status(202).send(false);
   }
});
```

### Add Card API

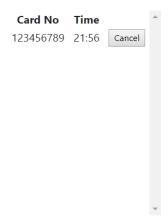


```
app.post('/addCard', (req, res) => {
    const {cardno} = req.body;
    const {cvv} = req.body;
    const card = new Card({
        _id: new mongoose.Types.ObjectId(),
        cardno: cardno,
        cvv: cvv,
        balance: 20
    });
    Card.find({cardno: cardno}).exec().then(result=>{
       if(result.length > 0){
            res.status(200).send(false);
        else{
            card.save().then(result=>{
               console.log(result);
               res.status(200).send(true);
           })
    });
});
```

### Manage Order API

① Not secure | ec2-18-204-130-151.compute-1.amazonaws.com:3000/orders

### Welcome to Starbucks Orders











```
const cardno = req.body.cardno;
    const order = new Order({
         _id: new mongoose.Types.ObjectId(),
         cardno: cardno
    });
    order.save().then(result=>{
        console.log(result);
        res.status(200).json({
             message: "Order Placed Successfully"
    })
})
app.post('/cancelOrder', (req, res)=>{
   const cardno = req.body.cardno;
    const orderid = req.body.orderid;
   Card.update({cardno: cardno}, {$inc: {balance: 1.5}}).exec().then(resultU=>{
       console.log(resultU);
       Order.remove({_id: orderid, cardno: cardno}).exec().then(result=>{
           res.status(200).json({
               message: "Order Cancelled"
           })
       })
   })
})
```

app.post('/makeOrder', (req, res)=>{

### Make Payments API

① Not secure | ec2-18-204-130-151.compute-1.amazonaws.com:3000/balance

#### Welcome to Starbucks

**View Balances** 



① Not secure | ec2-18-204-130-151.compute-1.amazonaws.com:3000/balance

#### Welcome to Starbucks

**View Balances** 

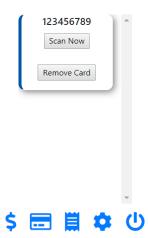


```
app.post('/minusBalance', (req, res)=>{
    const cardno = req.body.cardno;
    Card.find({cardno: cardno}).exec().then(resultB=>{
        console.log(resultB);
        if(resultB[0].balance >= 1.50){
            Card.update({cardno: cardno}, {$inc: {balance: -1.5}}).exec().then(resultU=>{
                res.status(200).send(true);
            })
        }
        else{
            res.status(200).send(false);
      }
})
})
```

### Remove Card API

① Not secure | ec2-18-204-130-151.compute-1.amazonaws.com:3000/mycards

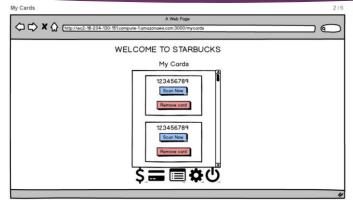
### Welcome to Starbucks My Cards

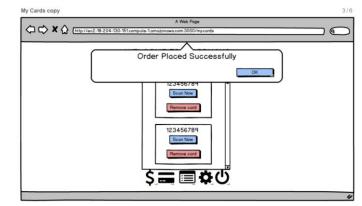


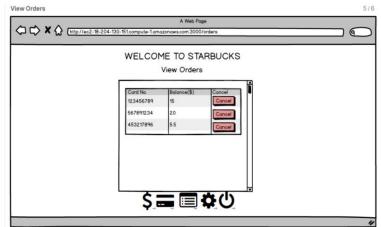
```
app.post('/removeCard', (req, res)=>{
    const cardno = req.body.cardno;
    Card.remove({cardno: cardno}).exec().then(result=>{
        console.log(result);
        res.status(200).json({
            message: "Card Removed Successfully"
        })
    })
});
```

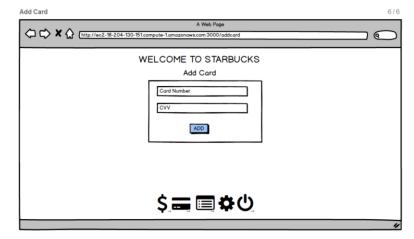
### **UI Wireframes**



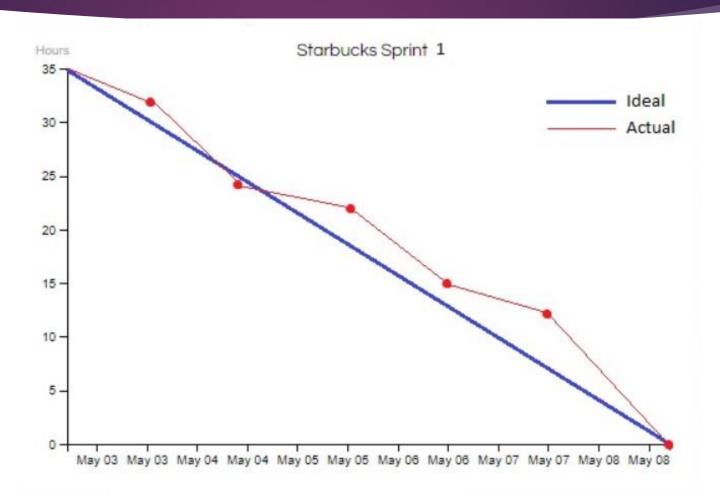








### Burndown Chart



### Core XP Values

#### ► Simplicity : Taken care by Pranjal

"Did the simplest thing that could possibly work" (DTSTTCPW principle) and implemented a new capability in the simplest possible way.

► Communication :Taken care by Rachit

Followed the *Sit Together* principle to keep the team members at a short distance from each other, to stimulate casual interactions and conversations.

► Courage: Taken care by Nehal

Diligently communicated and accepted feedback positively, was truthful about progress and estimates and made efforts to adapt to changes whenever they happen

► Respect : Taken care by Shravani

Inculcated respect for each other as a valued team member which led to driving a value system based on enthusiasm and mutual respect

► Feedback : Taken care by Arkil

Ensured every iteration commitment is taken seriously by delivering a working software.

# Thank You!