GuaranTea

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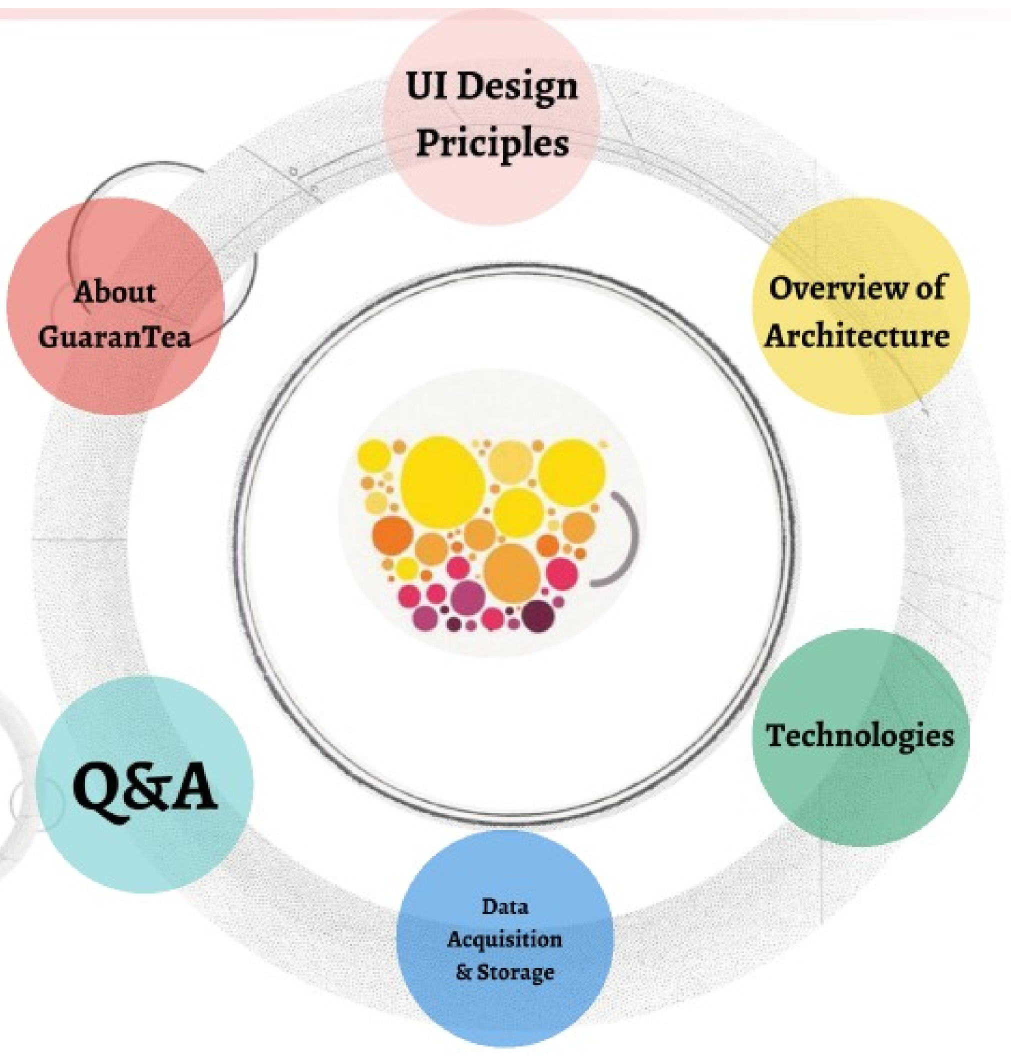
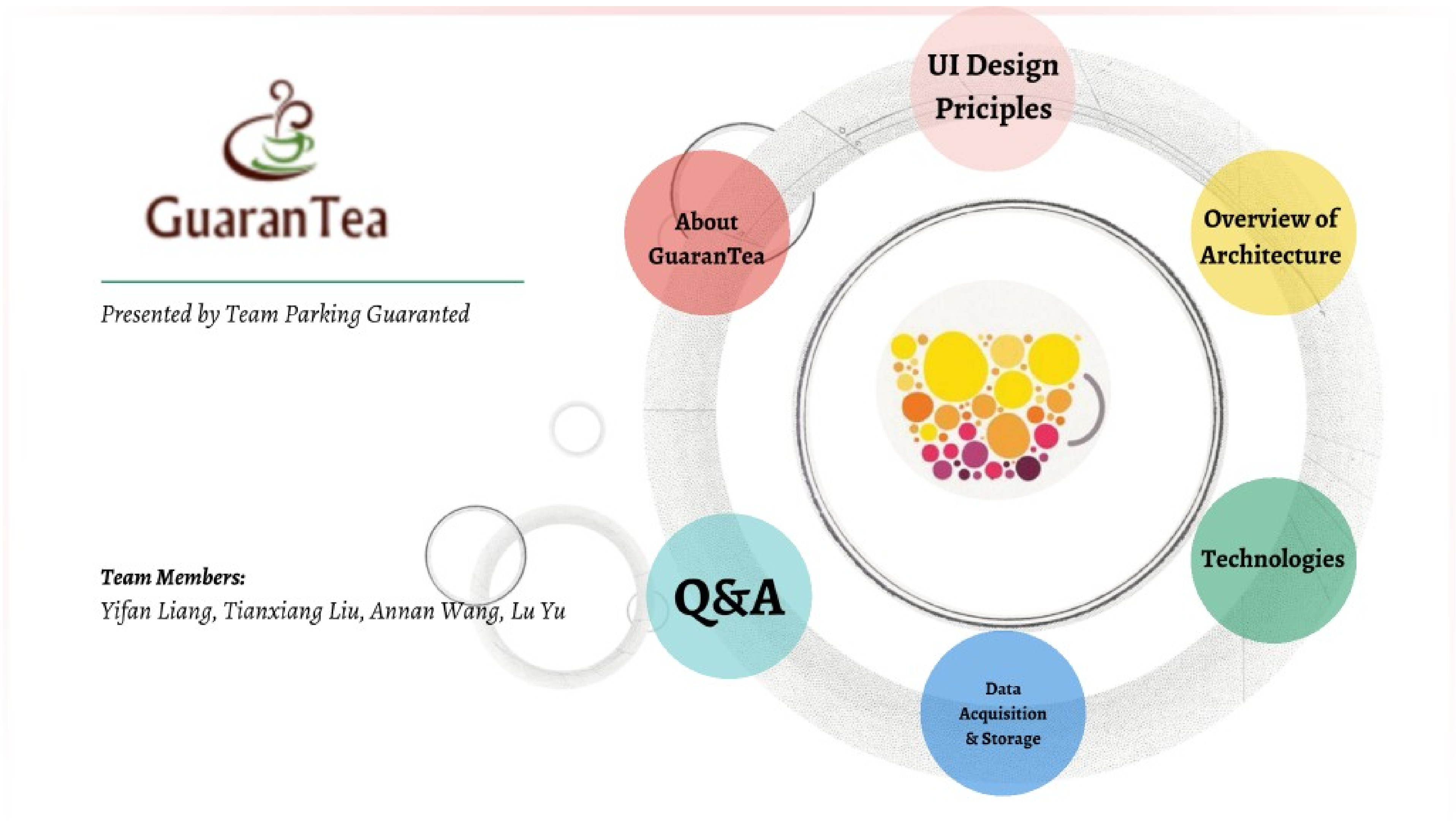


Team Members:
Yifan Liang, Tianxiang Liu, Annan Wang, Lu Yu

What is GuaranTea?

An interactive online tea order website, allowing the user to order tea beverages and pick up at store.



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About GuaranTea

UI Design Priciples

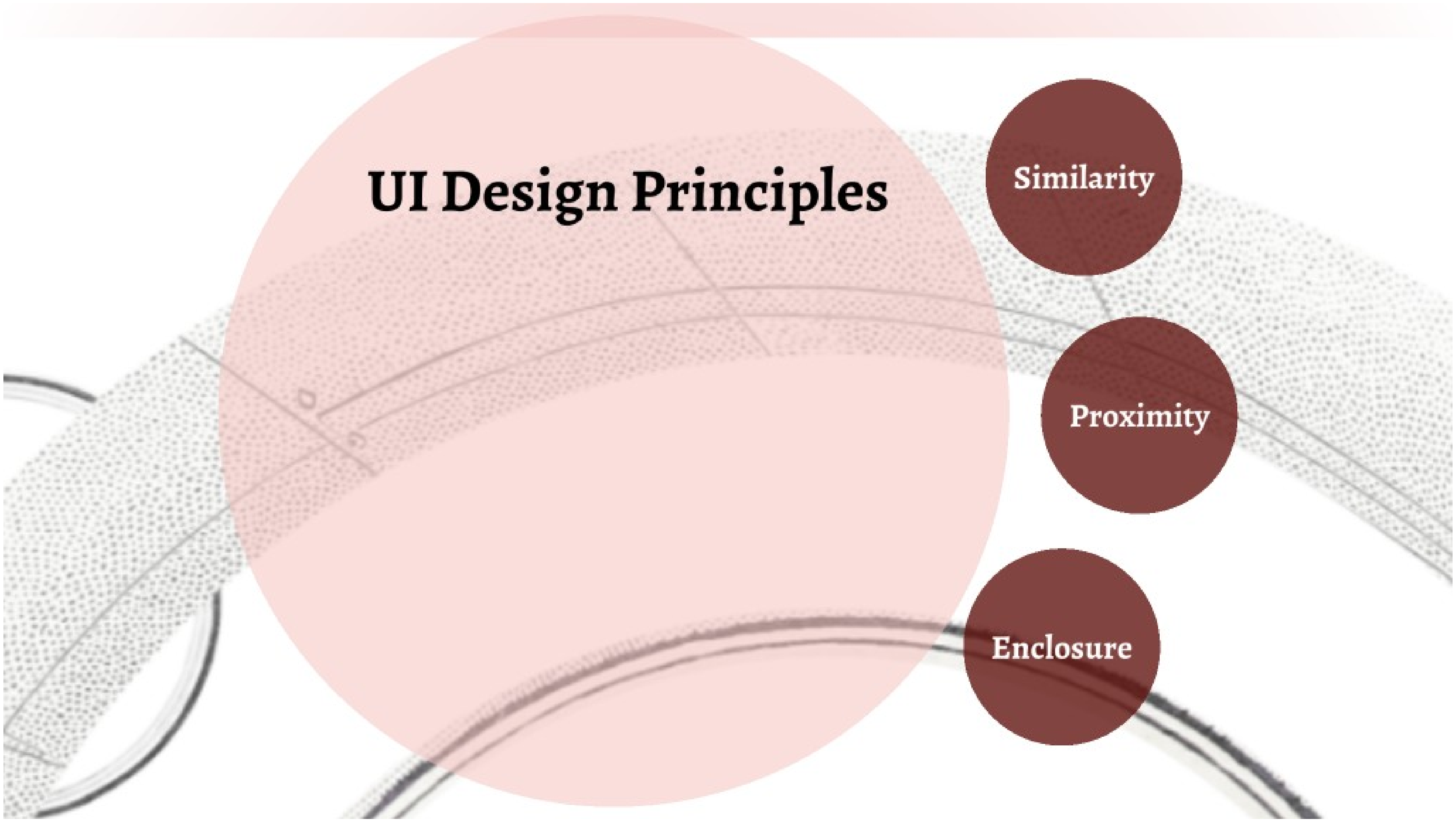
Overview of Architecture

Technologies

Data Acquisition & Storage

Q&A

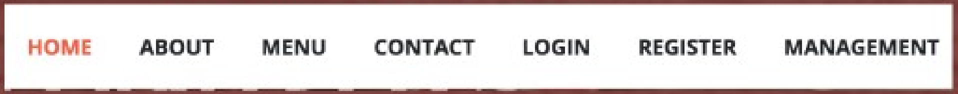
UI Design Principles



- Similarity
- Proximity
- Enclosure

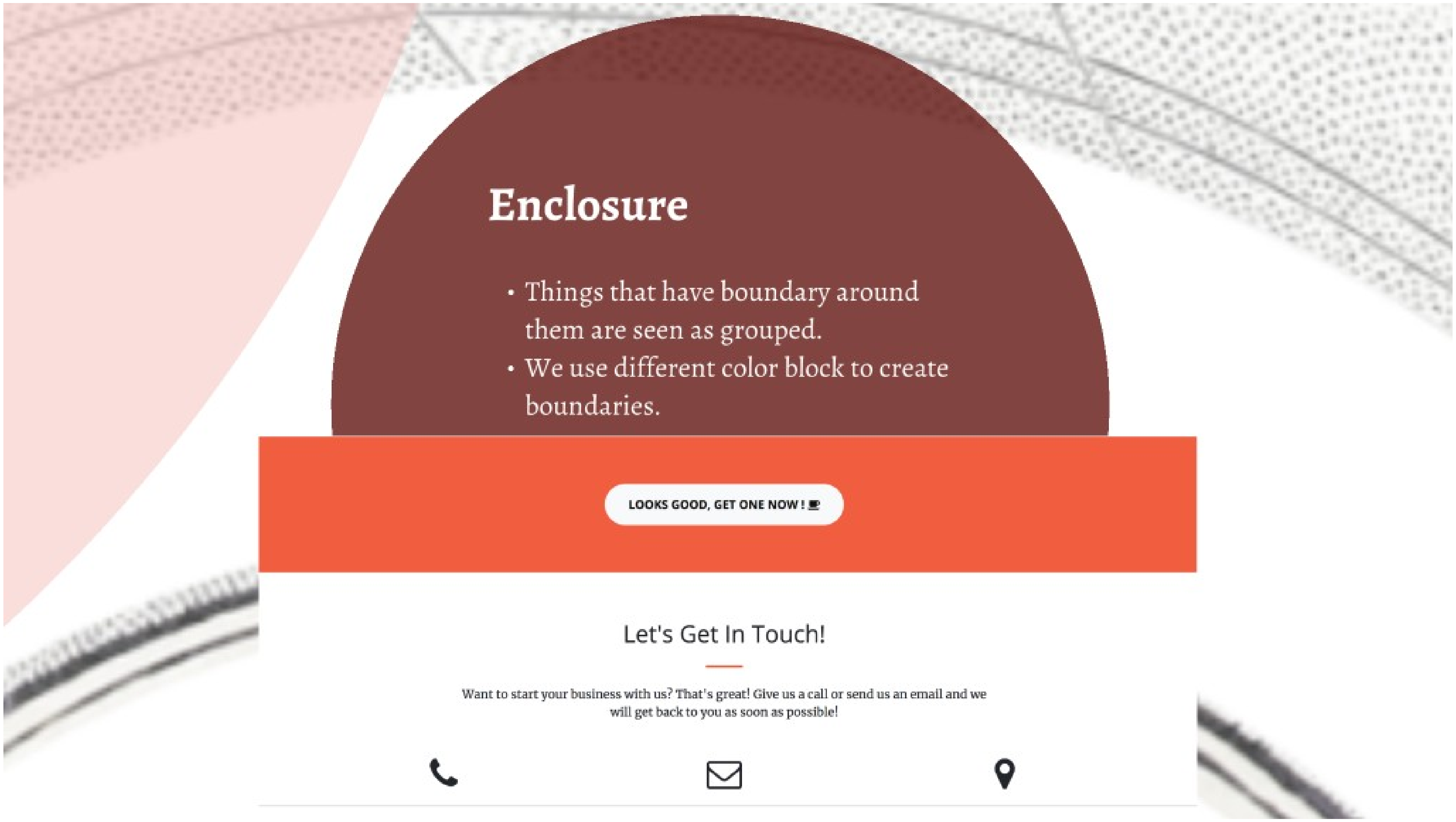
Similarity

- Buttons are similar style but not exact same in color.
- They are provided to be one group and share the same level of function.



Proximity

When elements are close together , they are seen as grouped

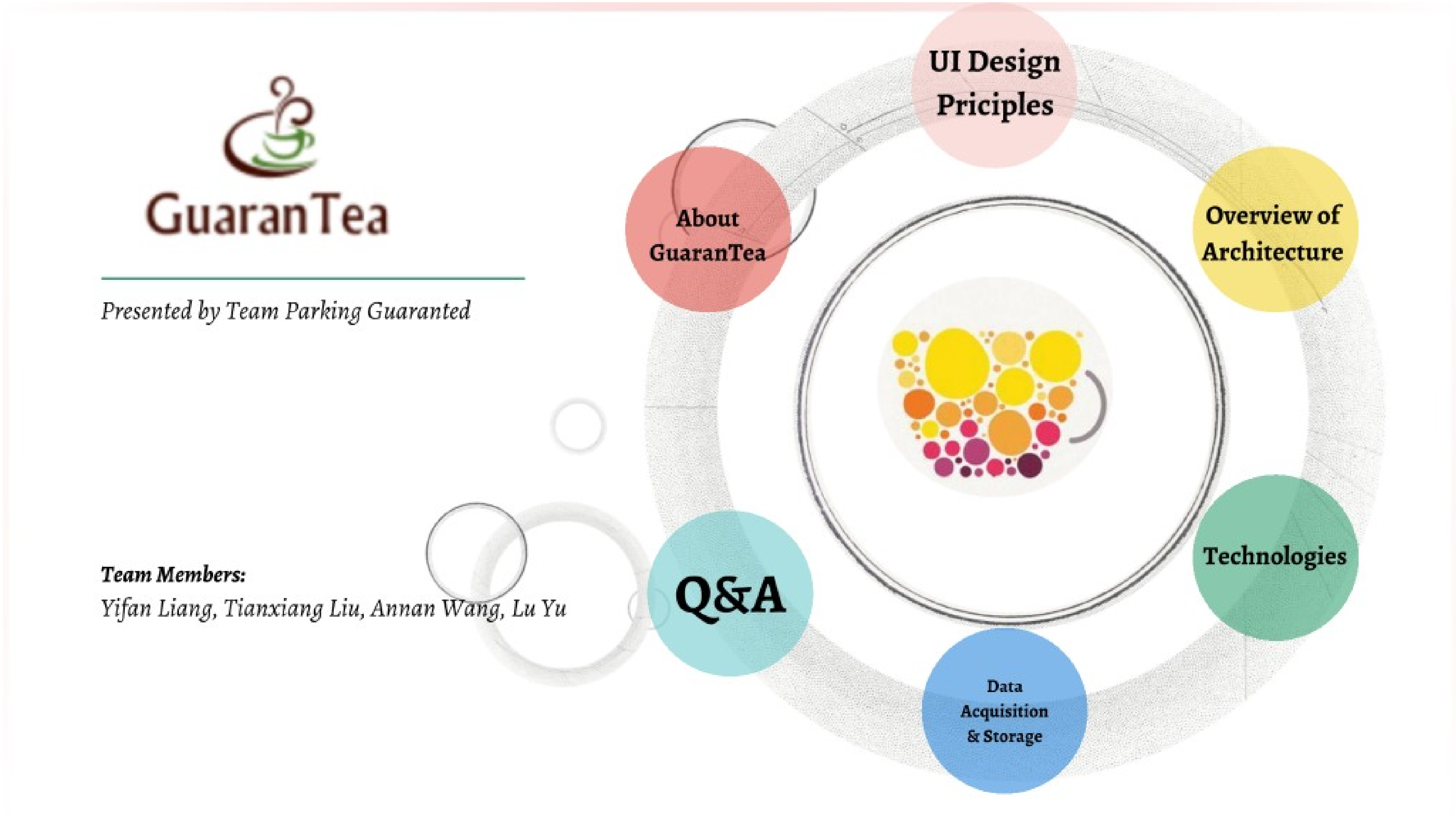


Enclosure

- Things that have boundary around them are seen as grouped.
- We use different color block to create boundaries.

Let's Get In Touch!

Want to start your business with us? That's great! Give us a call or send us an email and we will get back to you as soon as possible!



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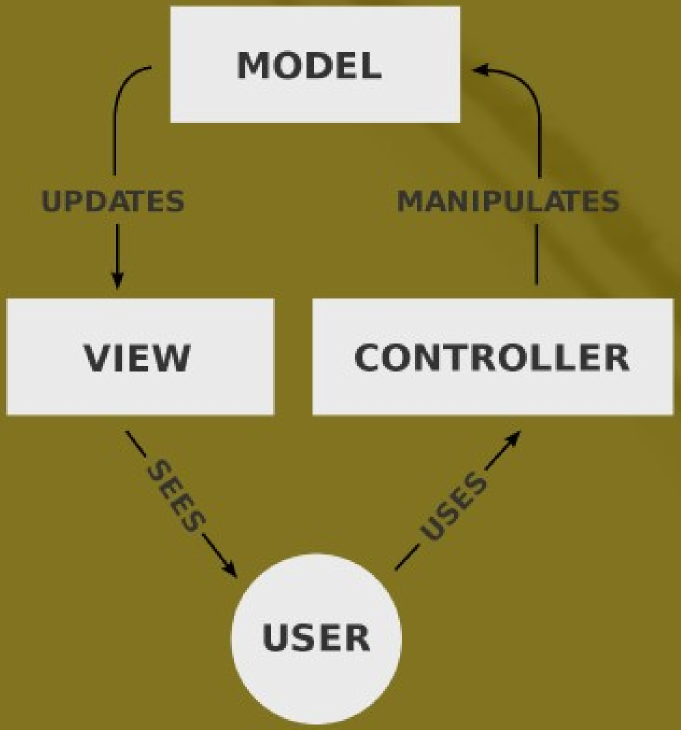
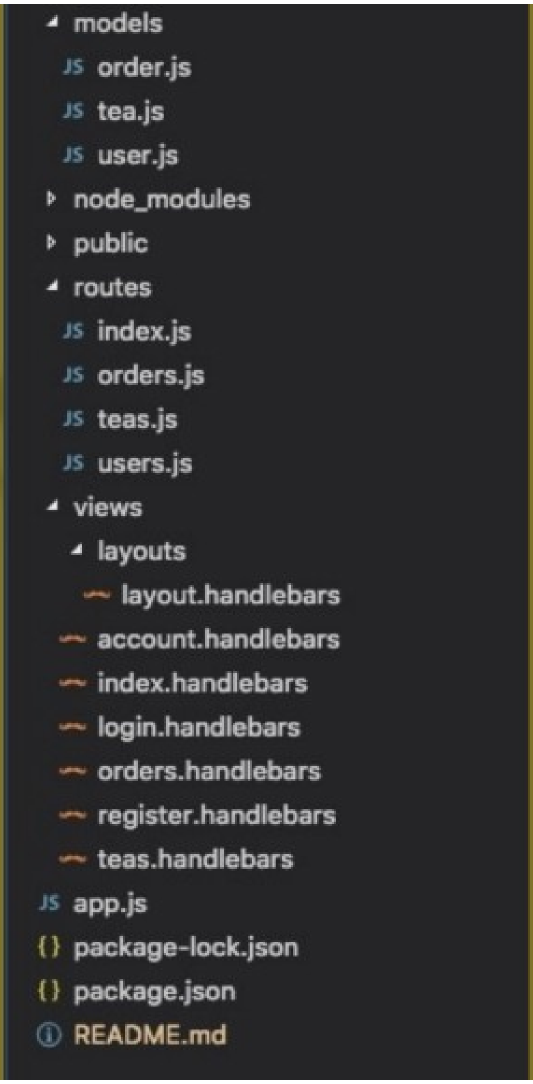
MVC

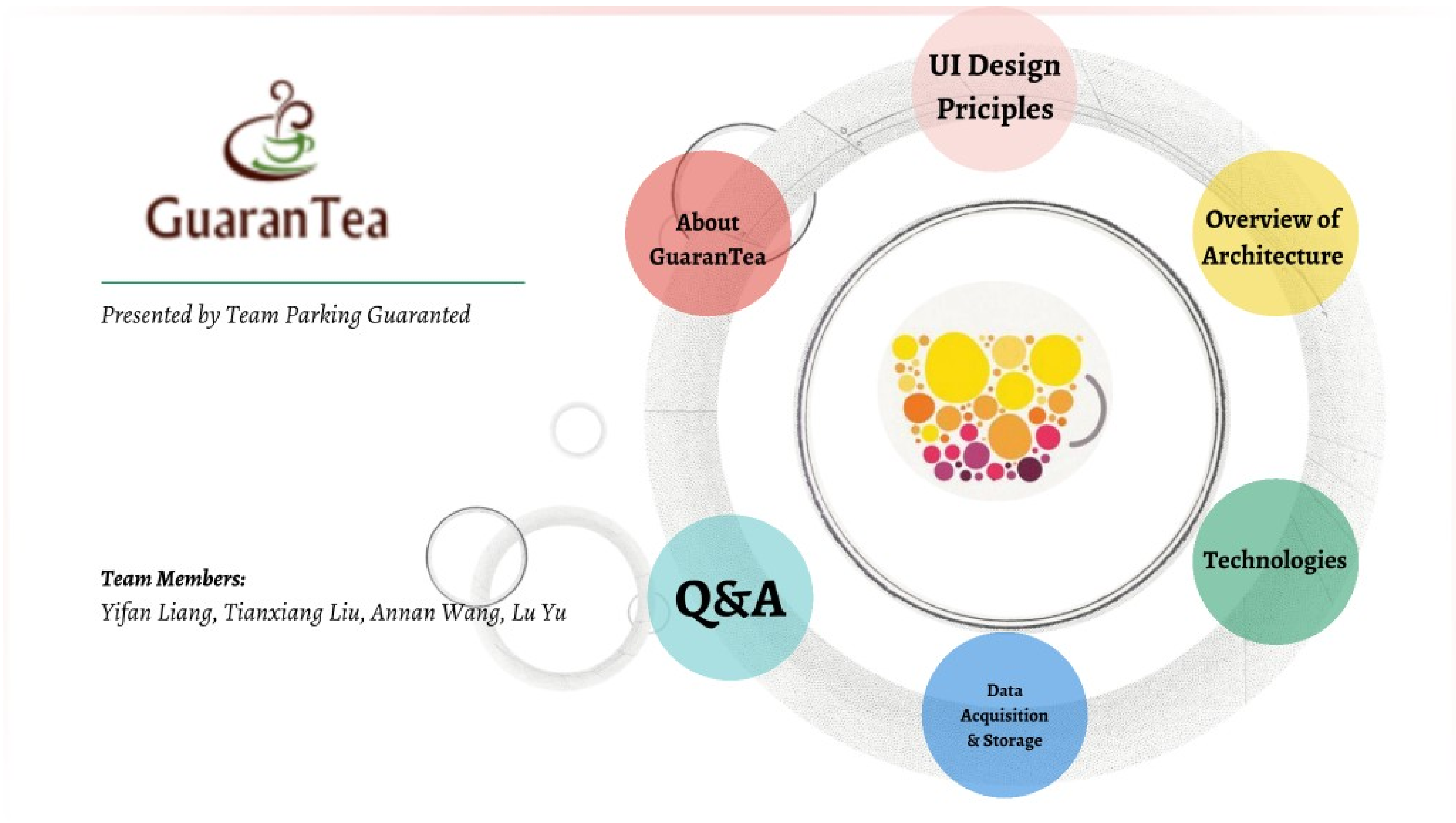
MVC Flowchart

MVC Flowchart





```
models
  order.js
  tea.js
  user.js
node_modules
public
routes
  index.js
  orders.js
  teas.js
  users.js
views
  layouts
    layout.handlebars
  account.handlebars
  index.handlebars
  login.handlebars
  orders.handlebars
  register.handlebars
  teas.handlebars
app.js
package-lock.json
package.json
README.md
```



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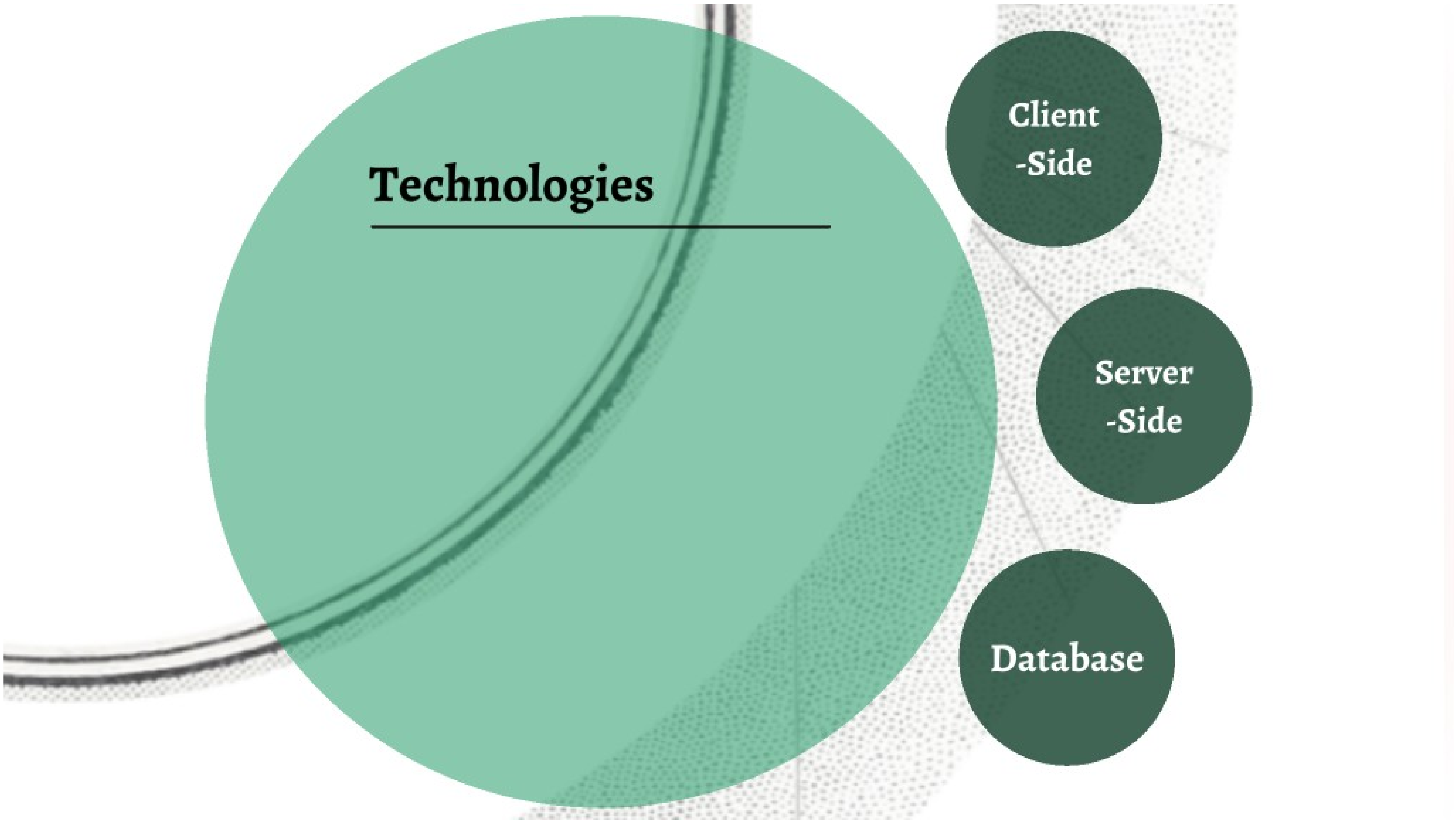
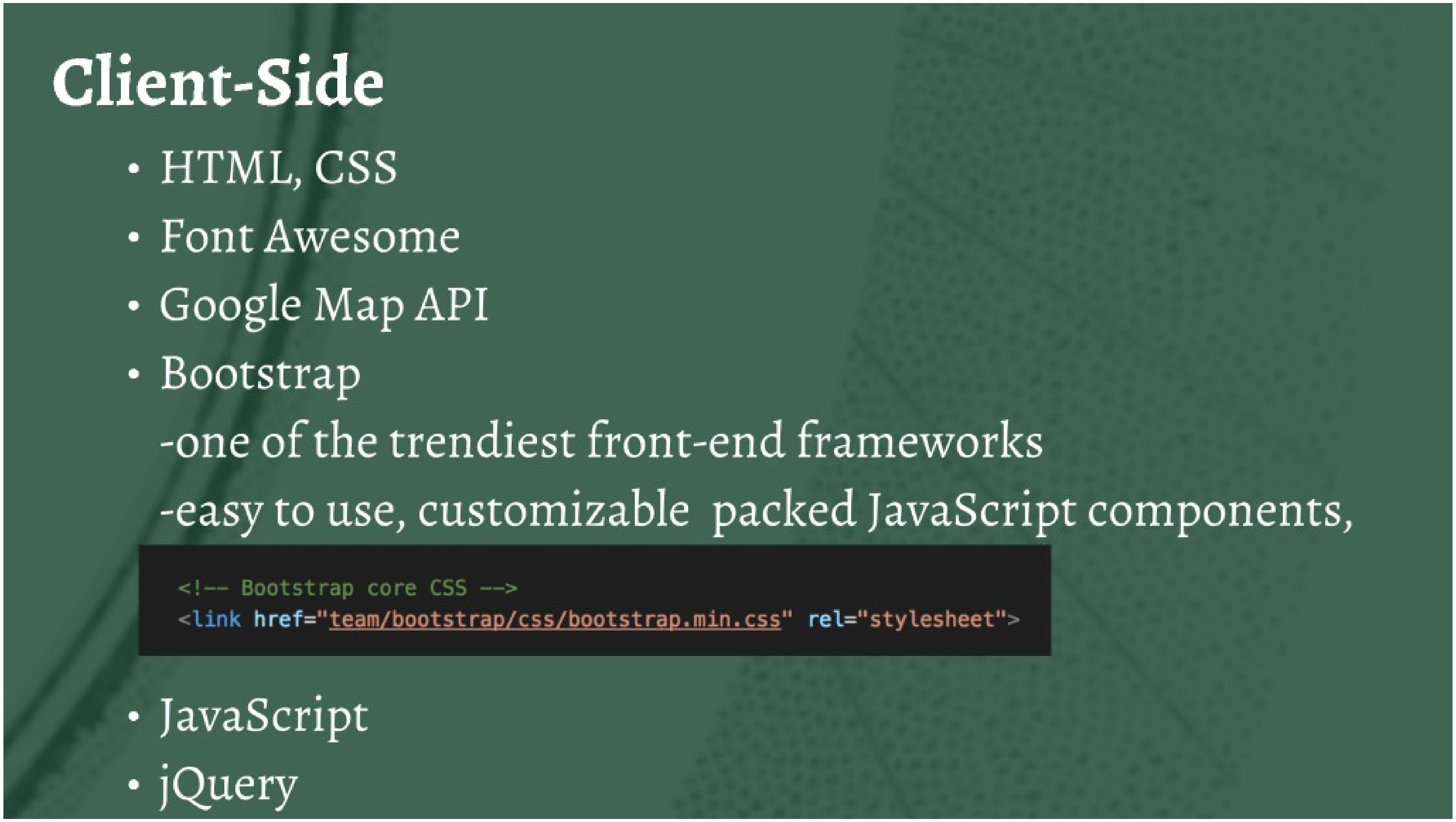


Technologies

Client -Side

Server -Side

Database



Client-Side

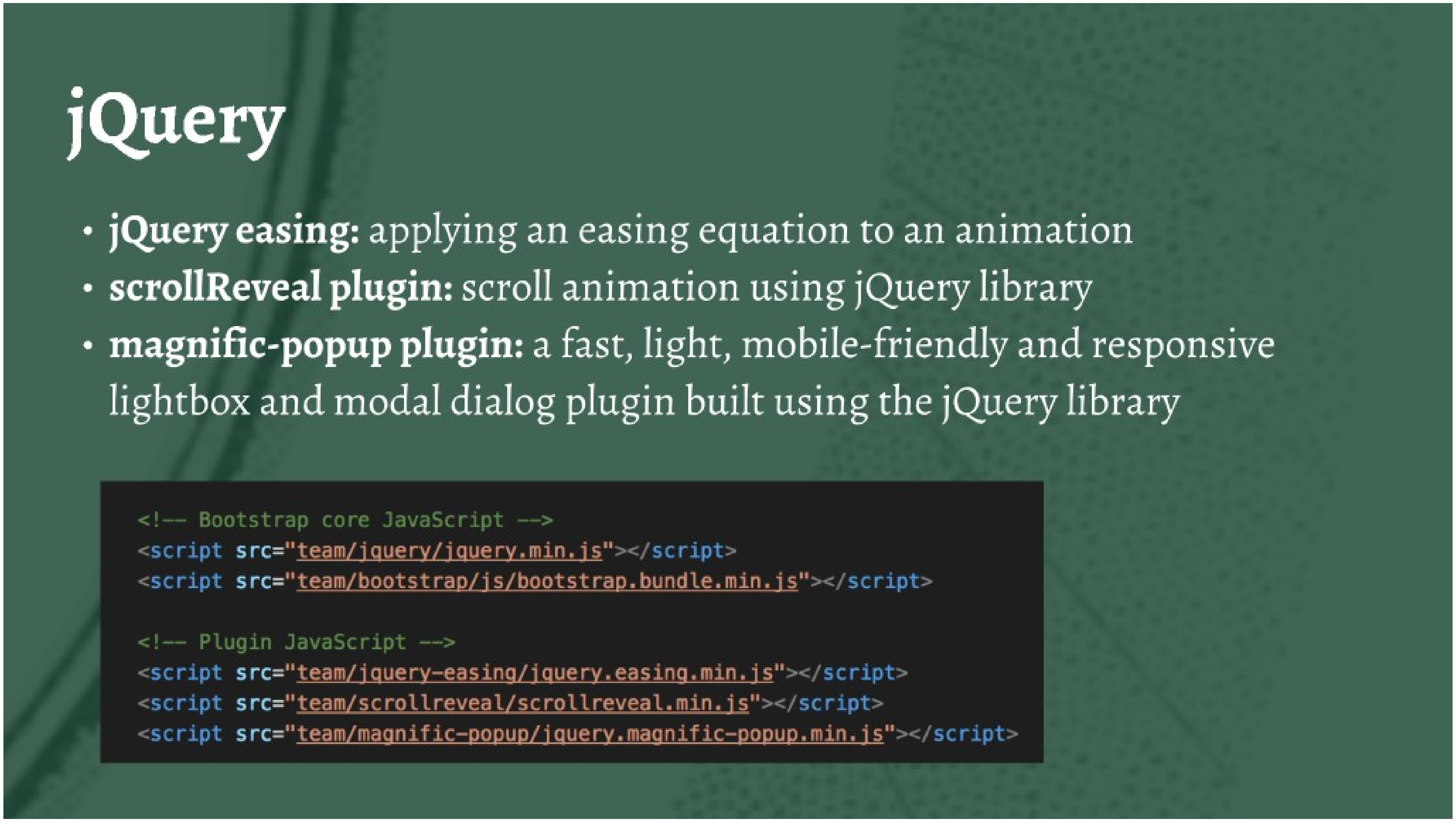
- HTML, CSS
- Font Awesome
- Google Map API
- Bootstrap

  -one of the trendiest front-end frameworks

  -easy to use, customizable packed JavaScript components,

```
<!-- Bootstrap core CSS -->
<link href="team/bootstrap/css/bootstrap.min.css" rel="stylesheet">
```

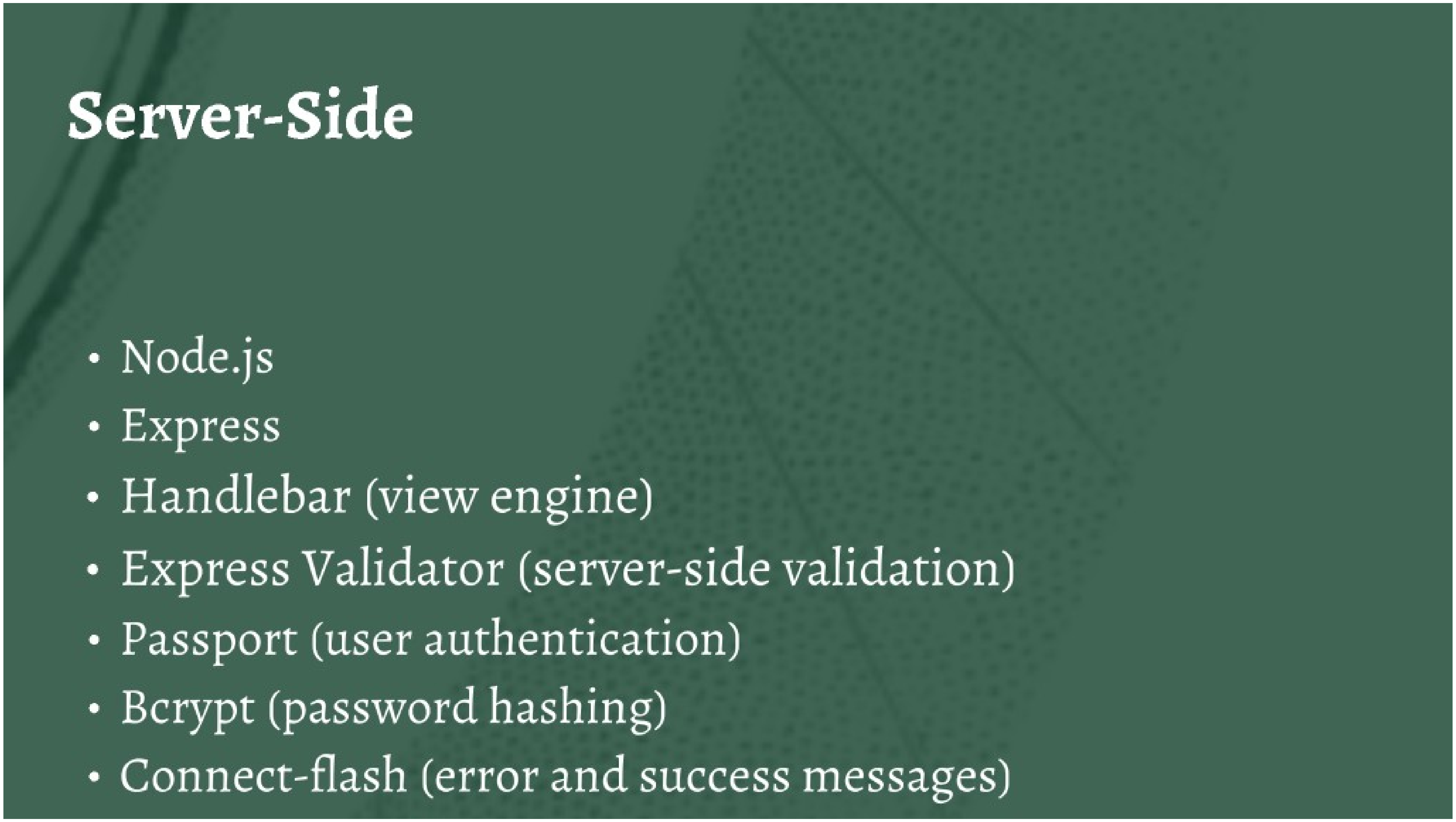
- JavaScript
- jQuery



jQuery

- **jQuery easing:** applying an easing equation to an animation
- **scrollReveal plugin:** scroll animation using jQuery library
- **magnific-popup plugin:** a fast, light, mobile-friendly and responsive lightbox and modal dialog plugin built using the jQuery library

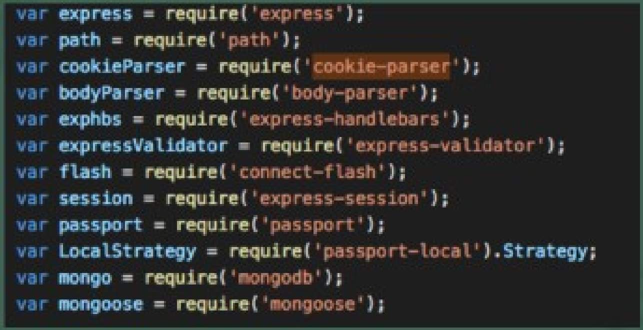
```
<!-- Bootstrap core JavaScript -->
<script src="team/jquery/jquery.min.js"></script>
<script src="team/bootstrap/js/bootstrap.bundle.min.js"></script>

<!-- Plugin JavaScript -->
<script src="team/jquery-easing/jquery.easing.min.js"></script>
<script src="team/scrollreveal/scrollreveal.min.js"></script>
<script src="team/magnific-popup/jquery.magnific-popup.min.js"></script>
```



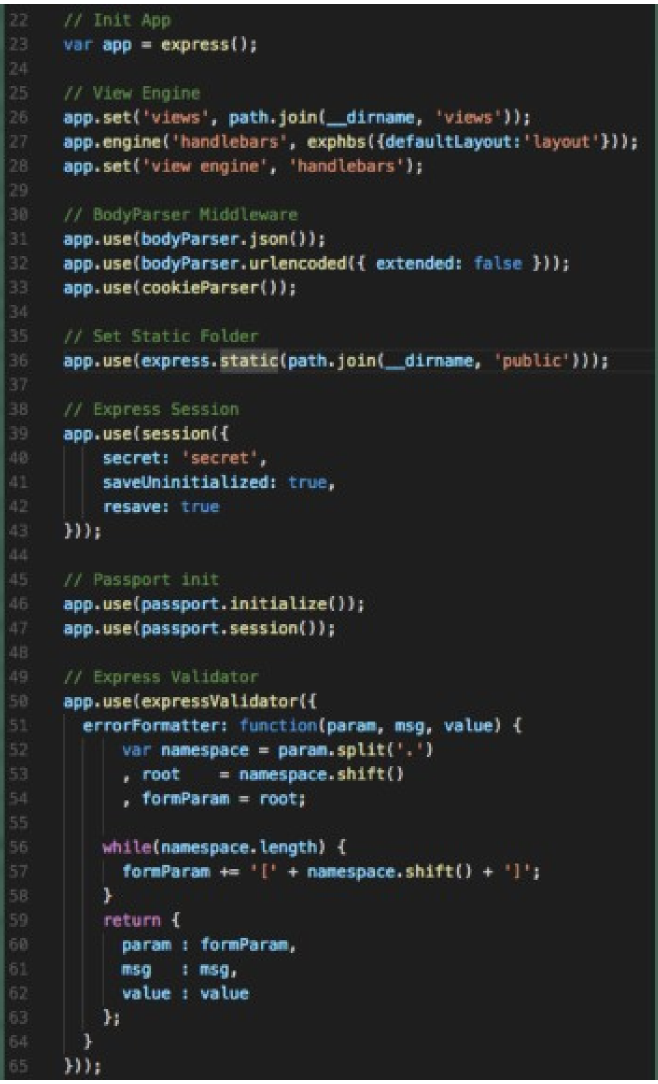
Server-Side

- Node.js
- Express
- Handlebar (view engine)
- Express Validator (server-side validation)
- Passport (user authentication)
- Bcrypt (password hashing)
- Connect-flash (error and success messages)

Import and Use Middleware

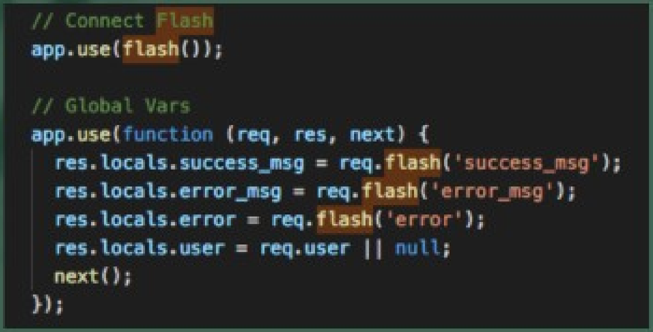


```
var express = require('express');
var path = require('path');
var cookieParser = require('cookie-parser');
var bodyParser = require('body-parser');
var exphbs = require('express-handlebars');
var expressValidator = require('express-validator');
var flash = require('connect-flash');
var session = require('express-session');
var passport = require('passport');
var LocalStrategy = require('passport-local').Strategy;
var mongo = require('mongodb');
var mongoose = require('mongoose');
```



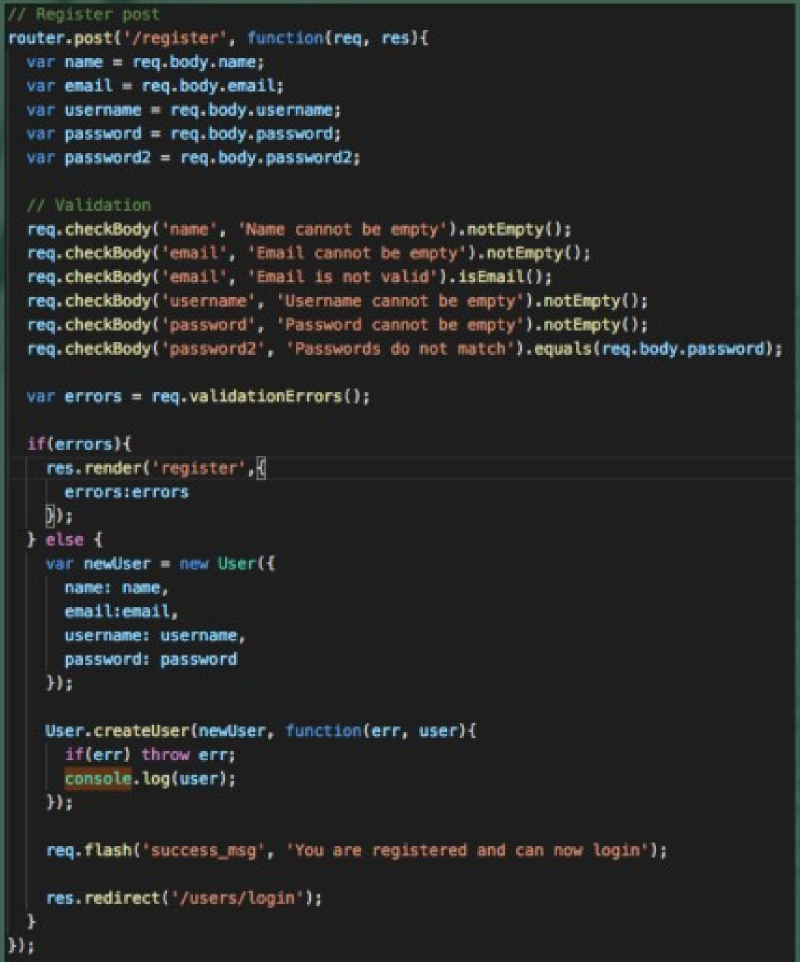
```
// Init App
var app = express();

// View Engine
app.set('views', path.join(__dirname, 'views'));
app.engine('handlebars', exphbs({defaultLayout:'layout'}));
app.set('view engine', 'handlebars');

// BodyParser Middleware
app.use(bodyParser.json());
app.use(bodyParser.urlencoded({ extended: false }));
app.use(cookieParser());

// Set Static Folder
app.use(express.static(path.join(__dirname, 'public')));

// Express Session
app.use(session({
    secret: 'secret',
    saveUninitialized: true,
    resave: true
}));

// Passport init
app.use(passport.initialize());
app.use(passport.session());

// Express Validator
app.use(expressValidator({
  errorFormatter: function(param, msg, value) {
      var namespace = param.split('.')
      , root    = namespace.shift()
      , formParam = root;

    while(namespace.length) {
      formParam += '[' + namespace.shift() + ']';
    }
    return {
      param : formParam,
      msg   : msg,
      value : value
    };
  }
}));
```

Connect-flash (error and seccess messages)



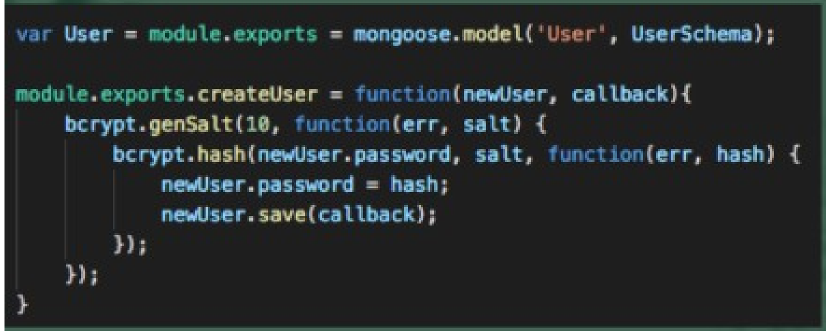
```
// Connect Flash
app.use(flash());

// Global Vars
app.use(function (req, res, next) {
  res.locals.success_msg = req.flash('success_msg');
  res.locals.error_msg = req.flash('error_msg');
  res.locals.error = req.flash('error');
  res.locals.user = req.user || null;
  next();
});
```

Express Validator (server-side validation)



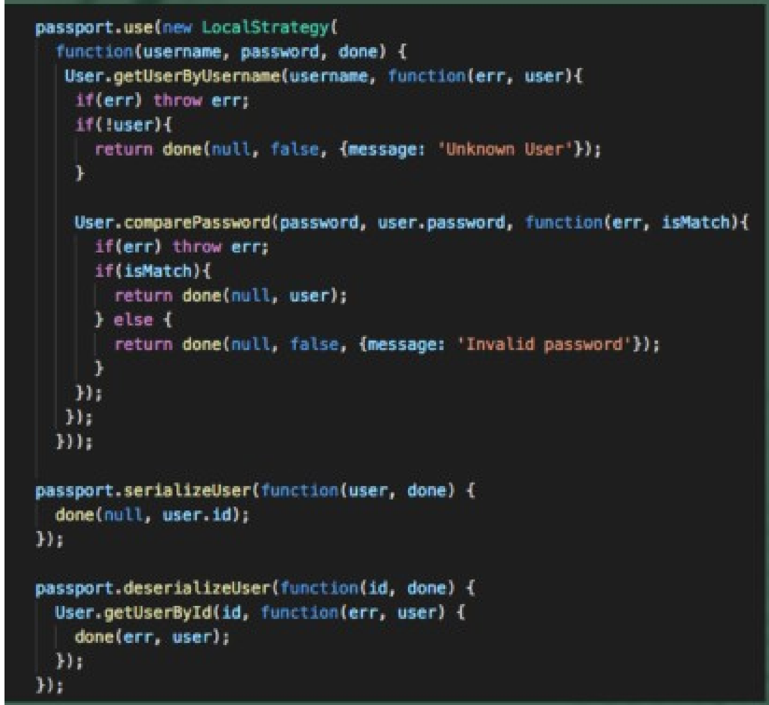
```
// Register post
router.post('/register', function(req, res){
  var name = req.body.name;
  var email = req.body.email;
  var username = req.body.username;
  var password = req.body.password;
  var password2 = req.body.password2;

  // Validation
  req.checkBody('name', 'Name cannot be empty').notEmpty();
  req.checkBody('email', 'Email cannot be empty').notEmpty();
  req.checkBody('email', 'Email is not valid').isEmail();
  req.checkBody('username', 'Username cannot be empty').notEmpty();
  req.checkBody('password', 'Password cannot be empty').notEmpty();
  req.checkBody('password2', 'Passwords do not match').equals(req.body.password);

  var errors = req.validationErrors();

  if(errors){
    res.render('register',{
      errors:errors
    });
  } else {
    var newUser = new User({
      name: name,
      email:email,
      username: username,
      password: password
    });

    User.createUser(newUser, function(err, user){
      if(err) throw err;
      console.log(user);
    });

    req.flash('success_msg', 'You are registered and can now login');

    res.redirect('/users/login');
  }
});
```

Bcrypt (password hashing)



```
var User = module.exports = mongoose.model('User', UserSchema);

module.exports.createUser = function(newUser, callback){
    bcrypt.genSalt(10, function(err, salt) {
        bcrypt.hash(newUser.password, salt, function(err, hash) {
            newUser.password = hash;
            newUser.save(callback);
        });
    });
}
```

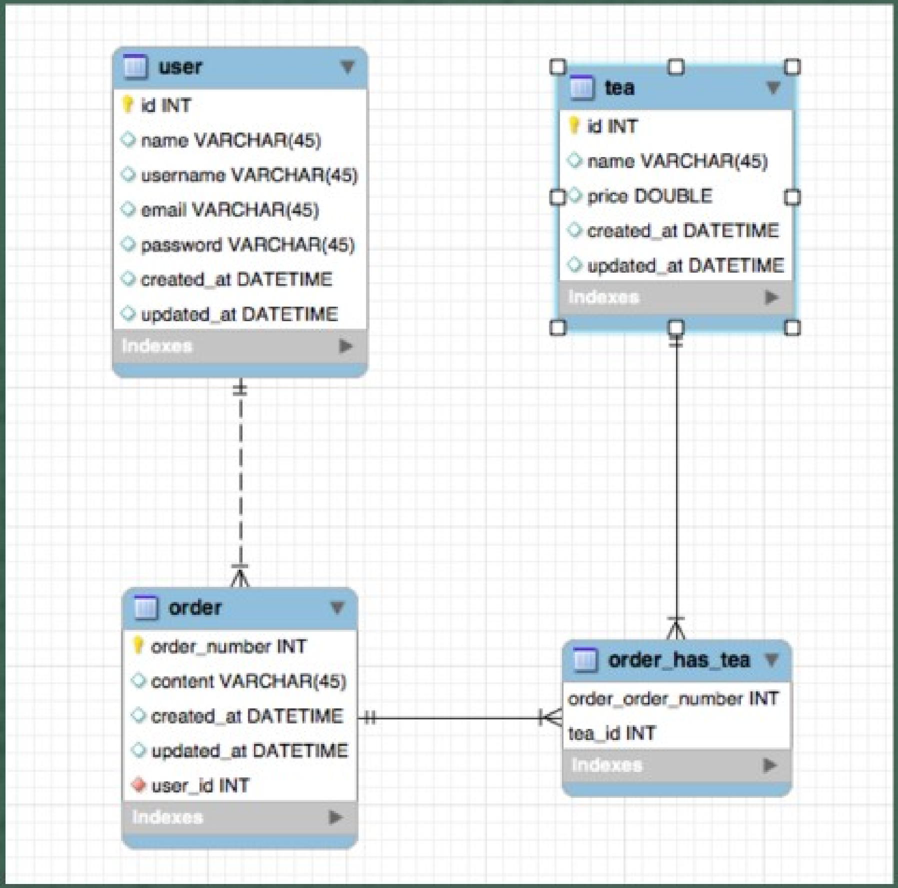
Passport (user authentication)

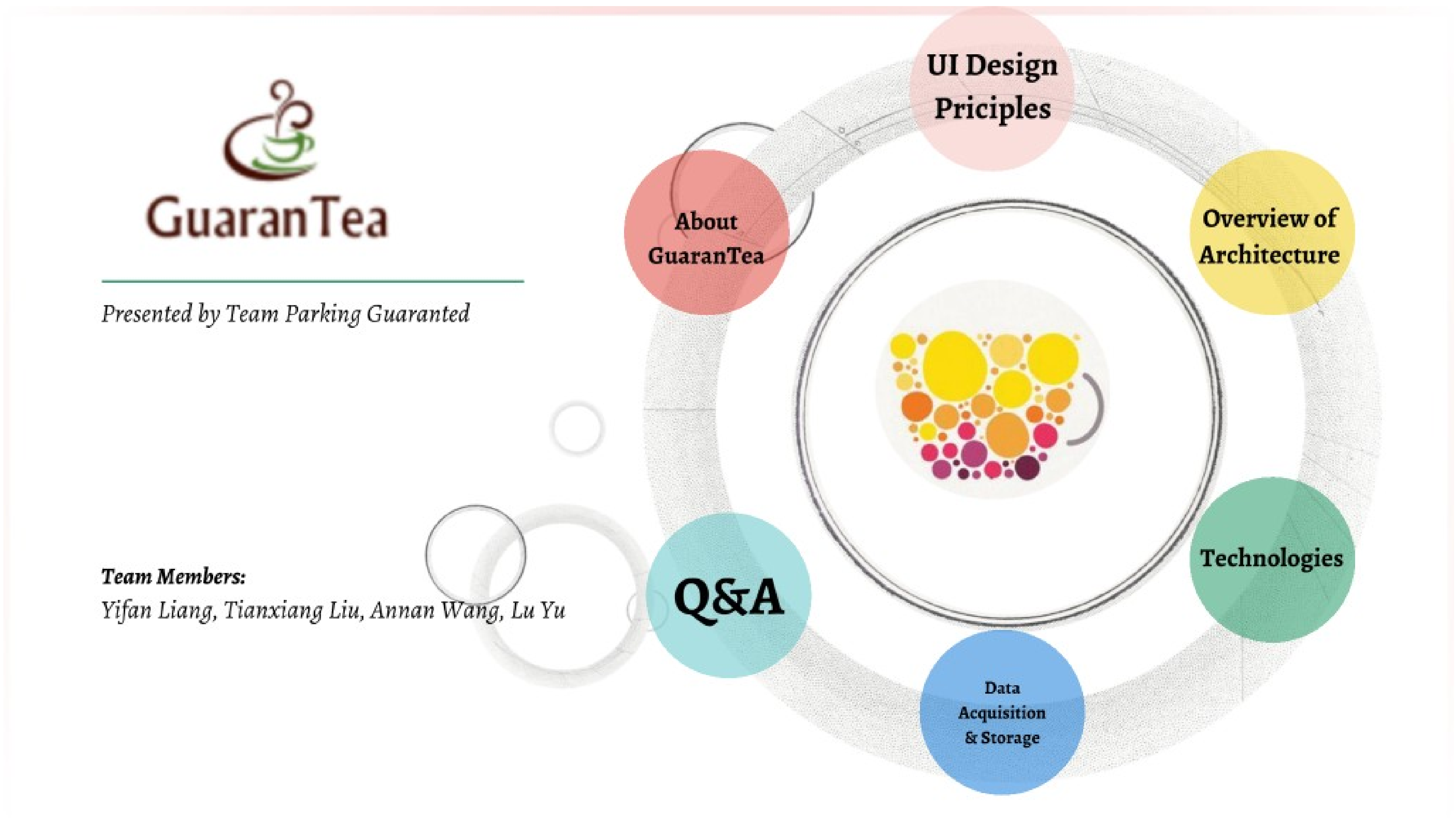


```
passport.use(new LocalStrategy(
  function(username, password, done) {
   User.getUserByUsername(username, function(err, user){
    if(err) throw err;
    if(!user){
      return done(null, false, {message: 'Unknown User'});
    }

    User.comparePassword(password, user.password, function(err, isMatch){
      if(err) throw err;
      if(isMatch){
        return done(null, user);
      } else {
        return done(null, false, {message: 'Invalid password'});
      }
    });
   });
  }));

passport.serializeUser(function(user, done) {
  done(null, user.id);
});

passport.deserializeUser(function(id, done) {
  User.getUserById(id, function(err, user) {
    done(err, user);
  });
});
```

Database

- Mongo DB
- Mongoose





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Data Acquisition & Storage

- The website will get data from users and store owners.
- After that, it will store the data to mongoDB.

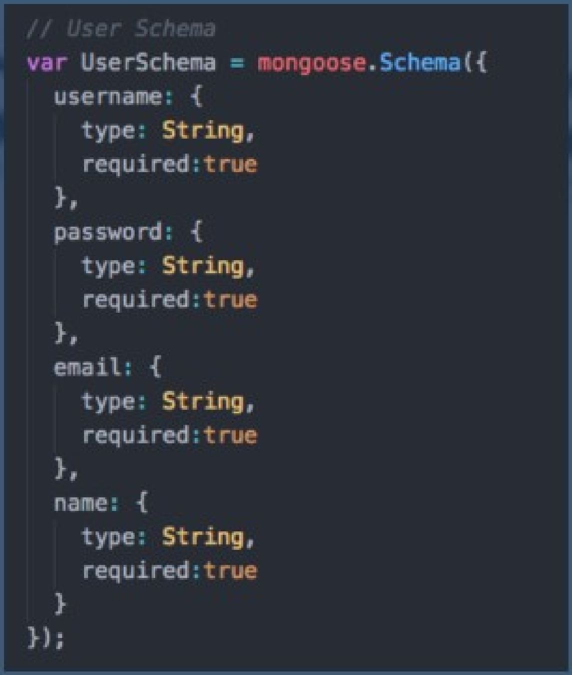
User Data

Tea Beverage Data

Order Data

User Data

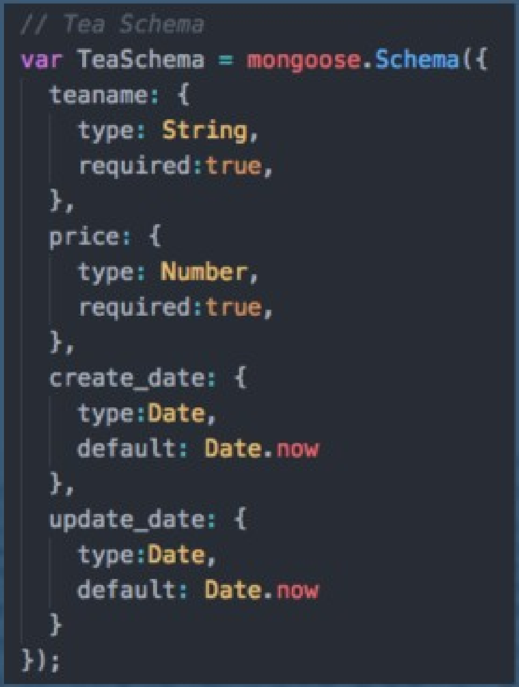
- User uploads name, username, password and email address upon registration.



```
// User Schema
var UserSchema = mongoose.Schema({
  username: {
    type: String,
    required:true
  },
  password: {
    type: String,
    required:true
  },
  email: {
    type: String,
    required:true
  },
  name: {
    type: String,
    required:true
  }
});
```

Tea Beverage Data

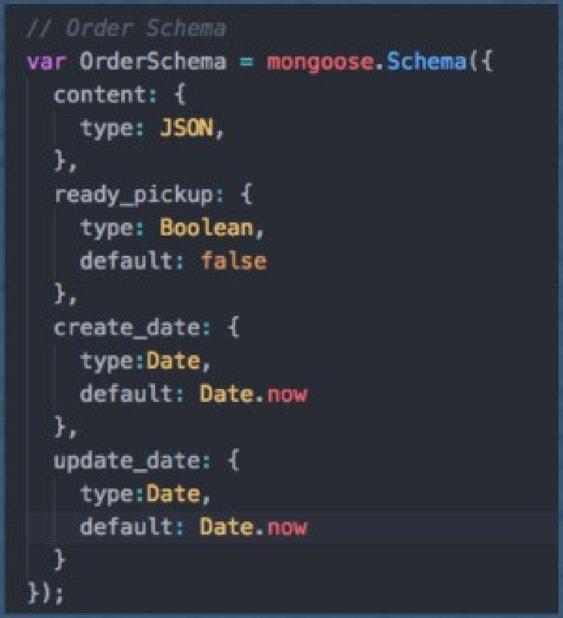
- Bussiness owner can upload beverage name and price.



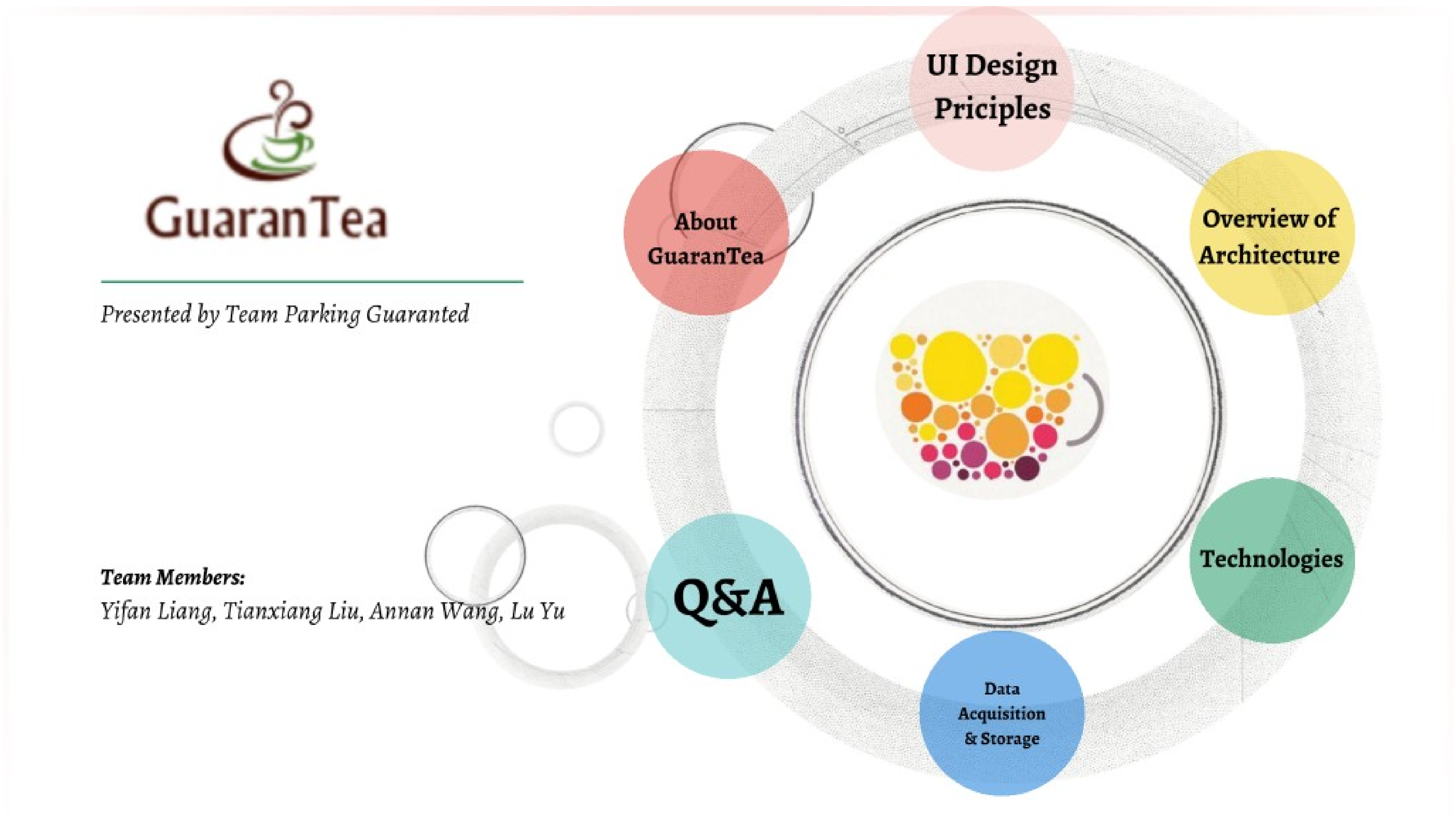
```
// Tea Schema
var TeaSchema = mongoose.Schema({
  teaname: {
    type: String,
    required:true,
  },
  price: {
    type: Number,
    required:true,
  },
  create_date: {
    type:Date,
    default: Date.now
  },
  update_date: {
    type:Date,
    default: Date.now
  }
});
```

Order Data

- The website keeps track of user's order information including tea name, price and when the order was placed.



```
// Order Schema
var OrderSchema = mongoose.Schema({
  content: {
    type: JSON,
  },
  ready_pickup: {
    type: Boolean,
    default: false
  },
  create_date: {
    type:Date,
    default: Date.now
  },
  update_date: {
    type:Date,
    default: Date.now
  }
});
```



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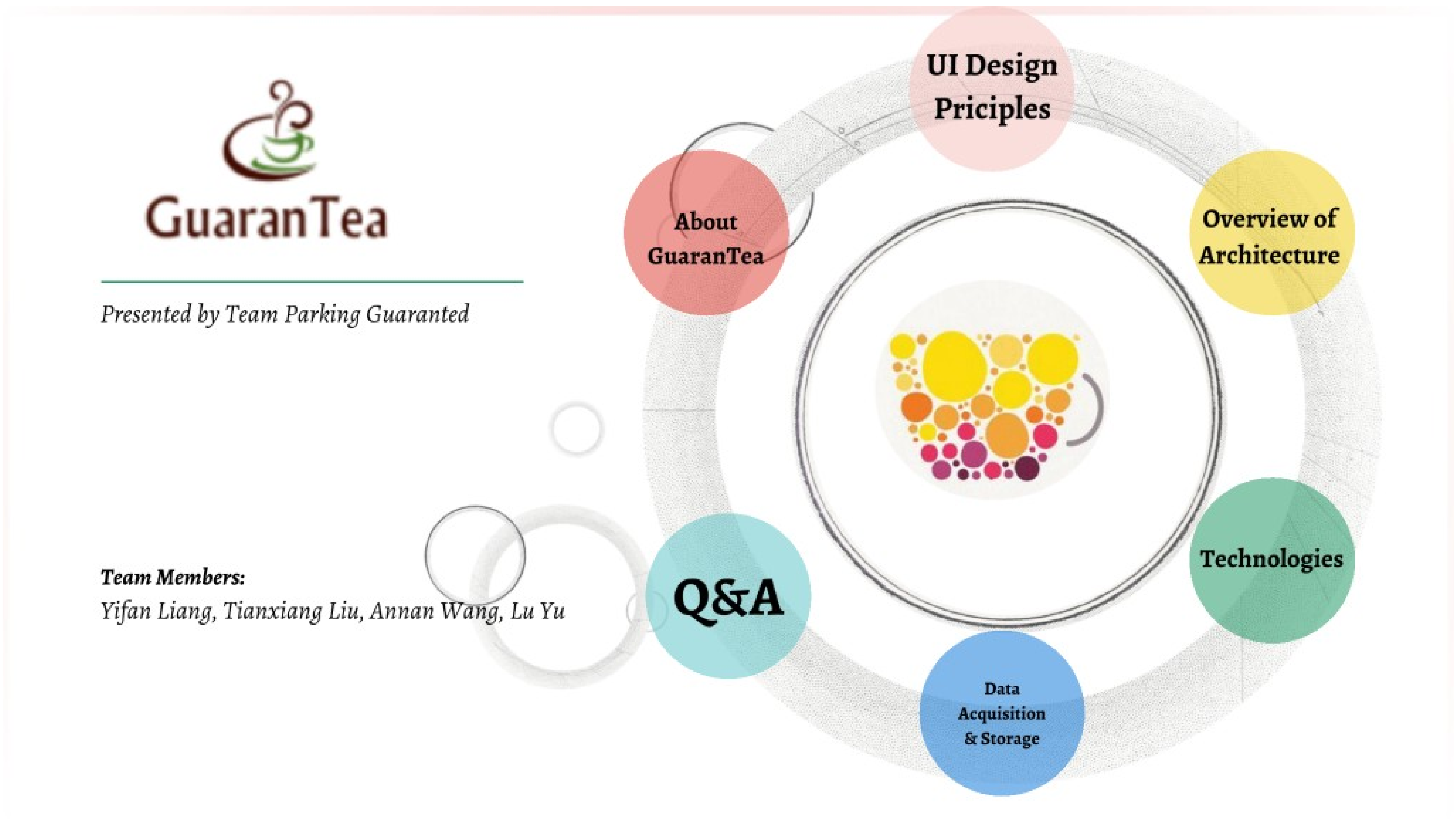
Q&A

Any questions?



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