

# 07-Short-Link-App

## Showing Meteor Error Messages- [Video](#)

- first lets explore the error message if we try to login without email and password

```
errorClass {isClientSafe: true, error: 400, reason: "Match failed", details: undefined, message:
  "Match failed [400]", ...}
```

- so we are going to be implementing the reason why it didn't work to login
- so lets start with an if statement
- so go to Signup.js

```
onSubmit(e){
  e.preventDefault();

  let email = this.refs.email.value.trim();
  let password = this.refs.password.value.trim();

  Accounts.createUser({email, password}, (err)=>{
    if(err){

    }else{

    }
  });
}
```

- if it does give an error we have to update the state so use setState

```
onSubmit(e){
  e.preventDefault();

  let email = this.refs.email.value.trim();
  let password = this.refs.password.value.trim();
```

```

Accounts.createUser({email, password}, (err)=>{
  if(err){
    this.setState({error: err.reason});
  }else{

  }
});
}

```

- if there isn't one we are going to clear the state

```

onSubmit(e){
  e.preventDefault();

  let email = this.refs.email.value.trim();
  let password = this.refs.password.value.trim();

  Accounts.createUser({email, password}, (err)=>{
    if(err){
      this.setState({error: err.reason});
    }else{
      this.setState({error: ''});
    }
  });
}

```

- now if you go to /signup and try to create account without a email or password you should get an error message above
- and if I just put in a password I get a different error above, so everything is working
- now let's do the something with Login.js but instead of Accounts.createUser, we are going to be using Meteor.loginWithPassword like so...

```

}

onSubmit(e){
  e.preventDefault();

```

```

    let email = this.refs.email.value.trim();
    let password = this.refs.password.value.trim();

    Meteor.loginWithPassword({email}, password, (err)=>{
      if(err){
        this.setState({error: err.reason});
      }else{
        this.setState({error: ''});
      }
    })
  }
}

```

- lets replace our default error message to something more meaningful

```

onSubmit(e){
  e.preventDefault();

  let email = this.refs.email.value.trim();
  let password = this.refs.password.value.trim();

  Meteor.loginWithPassword({email}, password, (err)=>{
    if(err){
      this.setState({error: 'Unable to login. Check email and password'});
    }else{
      this.setState({error: ''});
    }
  })
}

```

## Schema Validation - [Video](#)

- we want to make sure the user types in a valid email and a valid password, we are going to be using a library called simple schema
- so lets install it over in our terminal, open up a new tab and type
- make sure to type it without the e in simple, because that is different library

```
meteor npm install simpl-schema@0.0.3 --save
```

- now check the package.json in your folder and make sure is there

```

{
  "name": "short-lnk",
  "private": true,
  "scripts": {
    "start": "meteor run"
  },
  "dependencies": {
    "babel-runtime": "6.18.0",
    "meteor-node-stubs": "~0.2.0",
    "react": "^15.4.1",
    "react-dom": "^15.4.1",
    "react-router": "^3.0.0",
    "simpl-schema": "0.0.3"
  }
}

```

- now lets go and import our default export and call it SimpleSchema, and this is a constructor function, so we are going to be calling with the new keyword
- so go over to server main.js

```

import { Meteor } from 'meteor/meteor';
import SimpleSchema from 'simpl-schema';

Meteor.startup(() => {
  // code to run on server at startup
});

```

- lets now practice with this
- now to create a schema all we have to do is create a variable
- it take one argument that is an object- we provide all the properties we want for it, and we provide the rules for those properties
- and of the most popular rule is what type, is it a string? a number? a boolean?

```

import { Meteor } from 'meteor/meteor';
import SimpleSchema from 'simpl-schema';

Meteor.startup(() => {

```

```
// code to run on server at startup

const petSchema = new SimpleSchema({
  name: {

  }
});

});
```

- so for this we are going to be using String

```
import { Meteor } from 'meteor/meteor';
import SimpleSchema from 'simpl-schema';

Meteor.startup(() => {
  // code to run on server at startup

  const petSchema = new SimpleSchema({
    name: {
      type: String
    }
  });

});
```

- now lets validate to see if its working, with Shema we can use the validate() method

```
Meteor.startup(() => {
  // code to run on server at startup

  const petSchema = new SimpleSchema({
    name: {
      type: String
    }
  });
```

```
});  
petSchema.validate({  
  name: 'Jose'  
});  
  
});
```

- and as you can see it also take one argument, and it is an object, so in this case we Jose as the string.
- over in the terminal you won't see any changes, you will get an error message if the type is incorrect
- we can also use min and max for a size of a string

```
import { Meteor } from 'meteor/meteor';  
import SimpleSchema from 'simpl-schema';  
  
Meteor.startup(() => {  
  // code to run on server at startup  
  
  const petSchema = new SimpleSchema({  
    name: {  
      type: String,  
      min: 1,  
      max: 200  
    }  
  
  });  
  
  petSchema.validate({  
  
  });  
  
});
```

- we can also provide other properties like age

```
import { Meteor } from 'meteor/meteor';  
import SimpleSchema from 'simpl-schema';
```

```

Meteor.startup(() => {
  // code to run on server at startup

  const petSchema = new SimpleSchema({
    name: {
      type: String,
      min: 1,
      max: 200
    },
    age:{
      type: Number
    }
  });

  petSchema.validate({
    name: 'spot'
  });

});

```

- and we can also give it min or max properties

```

import { Meteor } from 'meteor/meteor';
import SimpleSchema from 'simpl-schema';

Meteor.startup(() => {
  // code to run on server at startup

  const petSchema = new SimpleSchema({
    name: {
      type: String,
      min: 1,
      max: 200
    },
    age:{

```

```

        type: Number,
        min: 0
    }

});

petSchema.validate({
    name: 'spot',
    age: -3
});

});

```

- so if we give this a -3 like you above, it will give an error, the min has to be at least 0
- we can also optional properties, and it won't give you an error

```

import { Meteor } from 'meteor/meteor';
import SimpleSchema from 'simpl-schema';

Meteor.startup(() => {
    // code to run on server at startup

    const petSchema = new SimpleSchema({
        name: {
            type: String,
            min: 1,
            max: 200,
            optional: true
        },
        age: {
            type: Number,
            min: 0
        }
    });

    petSchema.validate({
        name: 'spot',

```



```
    age: -3
  });

});
```

- now you can delete the name under petSchema.validate and you won't get any errors
- remember that everything defined is required unless you say other wise
- to learn more about this check on google [node simpl schema](#)
- we are going to be using regEx, which is good for validating emails, urls, phone numbers which pretty specific patterns
- so lets start by creating a new property called contactNumber and it is going to be an object
- and this will include the regEx

```
import { Meteor } from 'meteor/meteor';
import SimpleSchema from 'simpl-schema';

Meteor.startup(() => {
  // code to run on server at startup

  const petSchema = new SimpleSchema({
    name: {
      type: String,
      min: 1,
      max: 200,
      optional: true
    },
    age:{
      type: Number,
      min: 0
    },
    contactNumber:{
      type: String,
      optional: true,
      regEx: SimpleSchema.RegEx.Phone
    }
  });

  petSchema.validate({
```

```
    name: 'spot',  
    age: 21  
  });  
  
});
```

- now lets validate that number

```
});  
petSchema.validate({  
  name: 'spot',  
  age: 21,  
  contactNumber: '1234'  
});  
  
});
```

- and the above will work, but if you the following it won't work

```
});  
petSchema.validate({  
  name: 'spot',  
  age: 21,  
  contactNumber: '12#$34'  
});  
  
});
```

- and this is the error you will get in the terminal

```
ClientError: Contact number failed regular expression validation
```

- as a challenge we did an employeeSchema

```
const employeeSchema = new SimpleSchema({  
  name: {  
    type: String,  
    min: 1,
```

```
        max: 200
    },
    hourlyWage:{
        type: Number,
        min: 0
    },
    email:{
        type: String,
        regEx: SimpleSchema.RegEx.Email,
        optional: true
    }
});

employeeSchema.validate({
    name: 'Charles',
    hourlyWage: 25,
    email: 'charles@email.com'
});

});
```

-