

String

Det var ikke muligt at bryde 'String'. Uanset om vi satte et tal ind eller boolean, lavede mongoose det bare om til en string. Altså fx "true" istedet for true.

Number:

Number så således ud:

```
GET / 302 11.222 ms - 66
GET /users/login 304 421.454 ms - -
GET /stylesheets/style.css 304 1.922 ms - -
GET /users/createuser 200 27.221 ms - 883
GET /stylesheets/style.css 304 1.761 ms - -
(node:12912) DeprecationWarning: collection.ensureIndex is deprecated. Use createIndexes instead.
(Use 'node --trace-deprecation ...' to show where the warning was created)
Error: User validation failed: firstname: Cast to Number failed for value "Nadia" at path "firstname"
    at ValidationError.inspect (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\error\validation.js:47:26)
    at internal/per_context/primordials.js:23:32
    at formatValue (internal/util/inspect.js:774:19)
    at inspect (internal/util/inspect.js:336:10)
    at formatBuiltinOptionsInternal (internal/util/inspect.js:2006:40)
    at formatBuiltinOptions (internal/util/inspect.js:1888:10)
    at console.value (internal/console/constructor.js:313:14)
    at console.log (internal/console/constructor.js:348:61)
    at Object.exports.save (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\lib\mongoosewrap.js:91:17)
    at processTicksAndRejections (internal/process/task_queues.js:95:12)
    at async Object.exports.createUser (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\models\user\userHandler.js:37:5)
    at async C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\routes\users.js:48:5 {
  errors: {
    firstname: CastError: Cast to Number failed for value "Nadia" at path "firstname"
      at SchemaNumber.cast (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\schema\number.js:401:11)
      at SchemaNumber.SchemaType.applySetters (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\schema\type.js:1104:12)
      at model.$set (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\document.js:1280:20)
      at model.$set (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\document.js:1024:16)
      at model.Document (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\document.js:148:12)
      at model.Model (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\model.js:105:12)
      at new model (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\model.js:4713:15)
      at Object.exports.createUser (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\models\user\userHandler.js:30:16)
      at async C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\routes\users.js:48:5 {
        stringValue: "Nadia",
        messageFormat: undefined,
        kind: 'Number',
        value: 'Nadia',
        path: 'firstname',
        reason: AssertionError [ERR_ASSERTION]: The expression evaluated to a falsy value:

        assert.ok(!isNaN(val))

        at castNumber (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\cast\number.js:28:10)
        at SchemaNumber.cast (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\schema\number.js:399:12)
        at SchemaNumber.SchemaType.applySetters (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\schema\type.js:1104:12)
        at model.$set (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\document.js:1280:20)
        at model.$set (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\document.js:1024:16)
        at model.Document (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\document.js:148:12)
        at model.Model (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\model.js:105:12)
        at new model (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\model.js:4713:15)
        at Object.exports.createUser (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\models\user\userHandler.js:30:16)
        at async C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\routes\users.js:48:5 {
          generatedMessage: true,
          code: 'ERR_ASSERTION',
          actual: false,
          expected: true,
          operator: '=='
        }
      }
    },
    _message: 'User validation failed'
  }
}
POST /users/createuser 302 176.255 ms - 72
GET /users/pending 304 19.882 ms - -
GET /stylesheets/style.css 304 2.162 ms - -
}
```

Hvor den fortæller os, hvad stringValue er - og kind er 'Number' og hvilken path er 'firstname'. Bskeden er 'User validation failed'. Det fortæller os netop, at den ikke har overholdt Schema til modellen.

Unique

```
GET / 302 13.489 ms - 66
GET /users/login 304 421.556 ms - -
GET /stylesheets/style.css 304 2.206 ms - -
GET /users/createuser 200 30.162 ms - 883
GET /stylesheets/style.css 304 0.844 ms - -
(node:21084) DeprecationWarning: collection.ensureIndex is deprecated. Use createIndexes instead.
(Use `node --trace-deprecation ...` to show where the warning was created)
MongoError: E11000 duplicate key error collection: todo.user index: email_1 dup key: { email: "nadia@guide2know.dk" }
    at Function.create (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongodb\lib\core\error.js:57:12)
    at toError (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongodb\lib\utils.js:123:22)
    at C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongodb\lib\operations\common_functions.js:258:39
    at handler (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongodb\lib\core\sdam\topology.js:944:24)
    at C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongodb\lib\cmap\connection_pool.js:350:13
    at handleMessage (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongodb\lib\cmap\connection.js:277:5)
    at MessageStream.emit (events.js:315:20)
    at processIncomingData (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongodb\lib\cmap\message_stream.js:144:12)
    at MessageStream._write (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongodb\lib\cmap\message_stream.js:42:5)
    at writeOrBuffer (_stream_writable.js:352:12)
    at MessageStream.Writable.write (_stream_writable.js:303:10)
    at Socket.ondata (_stream_readable.js:719:22)
    at Socket.emit (events.js:315:20)
    at addChunk (_stream_readable.js:309:12)
    at readableAddChunk (_stream_readable.js:284:9) {
  driver: true,
  index: 0,
  code: 11000,
  keyPattern: { email: 1 },
  keyValue: { email: 'nadia@guide2know.dk' }
}
POST /users/createuser 302 155.690 ms - 72
GET /users/pending 304 14.934 ms - -
GET /stylesheets/style.css 304 0.996 ms - -
```

Vi har unique på vores email, og her har vi prøvet at oprette med samme email. Den skriver 'email_1 dup key: {"nadia@guide2know.dk"}, som fortæller os, at nøglen bliver duplikeret. Denne bliver altså ikke gemt i databasen.

Required

```
GET / 302 11.115 ms - 66
GET /users/login 304 413.379 ms - -
GET /stylesheets/style.css 304 2.175 ms - -
GET /users/createuser 200 27.236 ms - 883
GET /stylesheets/style.css 304 0.927 ms - -
(node:1756) DeprecationWarning: collection.ensureIndex is deprecated. Use createIndexes instead.
(Use 'node --trace-deprecation ...' to show where the warning was created)
Error: User validation failed: email: Path 'email' is required.
    at ValidationError.inspect (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\error\validation.js:47:26)
    at internal/per_context/primordials.js:23:32
    at formatValue (internal/util/inspect.js:774:19)
    at inspect (internal/util/inspect.js:336:10)
    at formatWithOptionsInternal (internal/util/inspect.js:2006:40)
    at formatWithOptions (internal/util/inspect.js:1888:10)
    at console.value (internal/console/constructor.js:313:14)
    at console.log (internal/console/constructor.js:348:61)
    at Object.exports.save (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\lib\mongoosewrap.js:91:17)
    at processTicksAndRejections (internal/process/task_queues.js:93:5)
    at async Object.exports.createUser (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\models\user\userHandler.js:37:5)
    at async C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\routes\users.js:48:5 {
  errors: {
    email: ValidatorError: Path 'email' is required.
      at validate (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\schematype.js:1251:13)
      at C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\schematype.js:1234:7
      at Array.forEach (<anonymous>)
      at SchemaString.SchemaType.doValidate (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\schematype.js:1179:14)
      at C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\document.js:2517:18
      at processTicksAndRejections (internal/process/task_queues.js:75:11) {
        properties: [Object],
        kind: 'required',
        path: 'email',
        value: undefined,
        reason: undefined,
        [symbol(mongoose:validatorError)]: true
      }
  },
  _message: 'User validation failed'
}
POST /users/createuser 302 150.565 ms - 72
GET /users/pending 304 16.548 ms - -
GET /stylesheets/style.css 304 0.958 ms - -

```

Her har vi required på emailadressen, men den er ikke med. og den skriver 'User validation failed. email: Path 'email' is required'. Og længere nede kan vi se, at value er undefined, så det fortæller os, at den ikke fik en værdi til email - og det er som sagt required.

Date

```
at inspect (internal/util/inspect.js:336:10)
at formatWithOptionsInternal (internal/util/inspect.js:2806:40)
at formatWithOptions (internal/util/inspect.js:1888:10)
at console.value (internal/console/constructor.js:313:14)
at console.log (internal/console/constructor.js:348:61)
at Object.exports.save (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\lib\mongooseWrap.js:91:17)
at processTicksAndRejections (internal/process/task_queues.js:93:5)
at async Object.exports.createTask (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\models\task\taskHandler.js:26:9)
at async C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\routes\todo.js:53:3 {
  errors: {
    startDate: CastError: Cast to date failed for value "abde" at path "startDate"
    at SchemaDate.cast (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\schema\date.js:353:11)
    at SchemaDate.SchemaType.applySetters (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\schemaType.js:1104:12)
    at model.$set (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\document.js:1280:20)
    at model.$set (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\document.js:1024:16)
    at model.Document (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\document.js:148:12)
    at model.Model (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\model.js:105:12)
    at new model (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\model.js:4713:15)
    at Object.exports.createTask (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\models\task\taskHandler.js:18:20)
    at C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\routes\todo.js:53:21
    at processTicksAndRejections (internal/process/task_queues.js:93:5) {
      stringValue: "abde",
      messageFormat: undefined,
      kind: 'date',
      value: 'abde',
      path: 'startDate',
      reason: AssertionError [ERR_ASSERTION]: The expression evaluated to a falsy value:

      assert.ok(false)

      at castDate (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\cast\date.js:40:10)
      at SchemaDate.cast (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\schema\date.js:351:12)
      at SchemaDate.SchemaType.applySetters (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\schemaType.js:1104:12)
      at model.$set (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\document.js:1280:20)
      at model.$set (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\document.js:1024:16)
      at model.Document (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\document.js:148:12)
      at model.Model (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\model.js:105:12)
      at new model (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\node_modules\mongoose\lib\model.js:4713:15)
      at Object.exports.createTask (C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\models\task\taskHandler.js:18:20)
      at C:\Users\Kristensen\Documents\projekter\Projects\projectweek12\routes\todo.js:53:21
      at processTicksAndRejections (internal/process/task_queues.js:93:5) {
        generatedMessage: true,
        code: 'ERR_ASSERTION',
        actual: false,
        expected: true,
        operator: '=='
      }
    }
  },
  _message: 'Task validation failed'
}
POST /todo 302 58.924 ms - 54
GET /todo 200 90.480 ms - 1771
GET /stylesheets/style.css 304 0.940 ms - -
```

Date skriver ‘cast to date failed’, som fortæller os, at den ikke kunne konvertere det til en dato. Den fortæller os også, at værdien var ‘abcde’ ved path ‘startDate’.

Til sidst får vi beskeden ‘Task validation failed’. Denne blev altså ikke gemt til databasen.