King Fahd University of Petroleum and Minerals
ICS 571 – Client Server Programming – Fall 2016

Assignment #5

Objective: Learn *Form Processing* in Node.js and use AJAX to implement file upload. Also, incorporate "send–email" functionality using a REST-based web service.

Develop a Node.js application that delivers an HTML page with a form for sending an e-mail with a file attachment. The form has a "**Choose File**" button to select the file attachment (this will not submit the form) and a "**Send Mail**" button to submit to your Node.js server (this uses *Mailgun* to e-mail the message). **Use XmlHttpRequest object and FormData** to submit the form's data (**Do not use jQuery**). *On all states the form remains in view; status messages* (*or progress bar*) *are to be shown below the form*.

Useful References:

- https://www.sitepoint.com/creating-and-handling-forms-in-node-js/

- http://www.codediesel.com/nodejs/processing-file-uploads-in-node-js/

- https://www.sitepoint.com/easier-ajax-html5-formdata-interface/

*MailGun Web service***:**

https://documentation.mailgun.com/quickstart-sending.html#how-to-start-sending-email

(It is better to use the Node.js *mailgun-js* module):
https://www.npmjs.com/package/mailgun-js

Optional Task: Extra credit will be given for showing a progress bar for tracking file upload (of the attachment) by trapping the *onprogress* event of the XHR object.

Submission: Send your project (zip all files) as a mail attachment by Dec. 3, 2016.