Technical Lab Test – S3 Innovate Bangladesh

Applicant Name:

Job Title:

There are two problem listed below. Each problem have individual marks. So please do not wait for the result of first one, carry on the second one.

Note: Both problem source codes need to be uploaded in git and share the link separately. Also for the problem number 2 need to send the screenshot of create and list page.

Problem # 1 (Any Language) need to be submitted within 1 hour.

Problem # 2 (Web Application) need to be submitted by 3 days (including interview taking date, means if interview taken at date 1 then need to submit by 3)

1. Calculate mobile bill between two date times.

Peak Hour: 9.00.00 am to 10.59.59 pm

20 second pulse and each pulse rate 30 paisa

Off-peak Hour: 12.00.00 am to 8.59.59 am and 11.00.00 pm to 11.59.59 pm

20 second pulse and each pulse rate 20 paisa

Note: If pulse overlap (peak to off-peak or off-peak to peak) then take peak hour rate for that pulse.

Sample input:

Start time: 2019-08-31 08:59:13 am

End time: 2019-08-31 09:00:39 am

Breakdown (Optional to show):

2019-09-31 08:59:13 + 20 second (2019-09-31 08:59:33) = 20 paisa

2019-09-31 08:59:34 + 20 second (2019-09-31 08:59:54) = 20 paisa

2019-09-31 08:59:55 + 20 second (2019-09-31 09:00:15) = 30 paisa
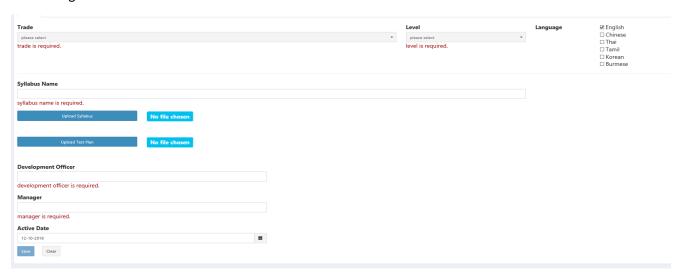
2019-09-31 09:00:16 + 20 second (2019-09-31 09:00:36) = 30 paisa

2019-09-31 09:00:37 + 3 second (2019-09-31 09:00:39) = 30 paisa

Sample output: 1.3 taka

2. Build a single page application (spa) crud operation using dot net/dot net core framework in back-end API and AngularJS/Angular in front-end. Sample UI design given below. Design can be done at own way, this is just demo. Feature and functions are listed as below:
   a. **Trade and Level dropdown** will have cascade relation e.g. if we select trade then respective levels of that trade should be loaded in level dropdown.
   b. **Language checkbox** list should have a validation that at least one need to be selected before submission. Can be selected one or more. Once multiple selected then need to show these languages in comma separated in the list view.
   c. **Syllabus Name** input text field. Mandatory field.
   d. **Two files upload (Syllabus and Test plan)** can be done. Need to be validated that only PDF and DOC files are allowed to upload.
   e. **Development Officer** input text field. Mandatory field.
   f. **Manager** input text field. Mandatory field.
   g. **Active Date** will be a date picker. Mandatory field. Need to validate the valid data string.
   h. **In the list view/ grid view** files name need to be clickable and after click the file need to be downloaded.

Create Page

Trade		Level		Language	
please select ▾		please select ▾			☑ English
trade is required.		level is required.			☐ Chinese
					☐ Thai
					☐ Tamil
					☐ Korean
					☐ Burmese

Syllabus Name

syllabus name is required.

Upload Syllabus	No file chosen

Upload Test Plan	No file chosen

Development Officer

development officer is required.

Manager

manager is required.

Active Date

12-10-2019 📅

Save   Clear

List Page

Trade:	All ▾	Level:	All ▾	Search 🔍

10 ▾

Action	Syllabus	Trade	Level	Uploaded Syllabus	Uploaded Test Plan	Languages	Active Date
✎	ACP SA -01112017	Asphalt Concrete Paving	SATW	ACPSECK[Complimentary]-Usethis.pdf	dummytestplan.docx	EN	18-09-2017
✎	ACP SEC(K)	Asphalt Concrete Paving	SEC(K)	ACPSECK[Complimentary]-Usethis.pdf	ACPSECK[Complimentary]-Usethis.pdf	EN	17-08-2017
✎	ACP-SATF-18062019	Asphalt Concrete Paving	SATF	Form14A.pdf	touhid_14A.pdf	EN	21-06-2019
✎	ACP-SATW-18062019	Asphalt Concrete Paving	SATW	Form14A.pdf	touhid_14A.pdf	EN	21-06-2019
✎	ACP-SEC(K)-01072019	Asphalt Concrete Paving	SEC(K)	Form14A.pdf	touhid_14A.pdf	EN,CH,TH,TM,KR,BR,BR	02-07-2019
✎	BDO SEC(K)	Bulldozer Operation	SEC(K)	Bulldozer_SECK_sample_paper2011cc__Use_This.pdf	dummytestplan.docx	EN	26-09-2017
✎	BDO-SATW	Bulldozer Operation	SATW	dummytestplan.docx	dummytestplan.docx	EN	26-09-2017
✎	BL-SEC(K)-23112017	Bricklaying	SEC(K)	dummy_test_plan.docx	dummy_test_plan.docx	EN	24-11-2017
✎	BMP - SEC(K)	Bored Micro-Piling Operation	SEC(K)	2-2BMPSECKSyllabus28Jan10.doc	6BMPSECKTestplan02Oct09.doc	EN	25-07-2017
✎	BMPO SA	Bored Micro-Piling Operation	SATW	2-2BMPSECKSyllabus28Jan10.doc	6BMPSECKTestplan02Oct09.doc	EN	07-09-2017

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