Group	**Group 10** Abhishek L Neil D Sanket K Uday N	**DV Final project submission**		
		Part I _ Que & ans		
Q1. Choose the dashboard	We have created a dashboard for retail power distribution company			
Q2. Why was the dashboard choosen	We wanted to work on a real life corporate dashboard whose complexity was high. The selected topic's dashboard seemed to be the perfect choice			
Q3. Go through each heuristic in the spreadsheet provided (Heuristics exercise.xlsx) and answer each row based on your example in detail. Visuals and screenshots of specific parts of the dashboard relevant to the heuristic are highly encouraged	Please refer part II of the sheet			
Q4. Were the heuristics useful? How? Which ones in particular? Explain in detail.	The heuristics were useful for sure. Many questions opened a new thinking pattern and we started to look at few new things which earlier we use to miss. The best one was the baiseness question about the author. I have started to realise that every dashboard will have some biase of the author and that needs to be recognised and thought of accordingly while making decisions.			
Q5. Were any of the heuristics not helpful or confusing to you? If so, please elaborate	If we answer a question in detailed, then many of the subsequent questions were getting covered in it. E.g. Q. The dashboard employs visual symbols and iconography to add meaning to the data being presented or help support the intended message Vs Q. The iconography supports or potentially replaces repetitive text directives.			
Q6. Did any of the heuristics make you think of dashboard design in a new way?	Yes, the question related to the baisedness of the author, some questions which triggered to think on the details of fformating of the dashboard made me think in a new way.			
Q7. Were there any heuristics that you thought were missing?	Heuristics related to animations could have been introduced in here.			
Q8. What changes would you make to the dashboard based on this assessment? Please describe in detail	I would add seperated buttons for separate story points rather than keeping it in slide forms which will be easy for a management level person to view.			
		Part II _ Heuristics (sub part of Q3)		
Heuristic	**Additional questions related to heuristic**	**Likert scale**	**Rate the dashboard on a Likert scale ranging from strong violation <> weak violation <> weak application <> strong application, and qualify with additional details. If the heuristic applies, then describe how. If the heuristic is violated, then describe suggestions, alternatives, fixes to the dashboard to satisfy the heuristic. Add relevant screenshots and visuals.**	**Pics for reference**
The dashboard supports specific analytical questions or tasks.	If so, what task does the dashboard support?	strong application	The dashboard is divided in story lines and answers specific analytical side of the domain	
The user should be able to explore the data using the dashboard.	If the user is unable to explore the data, why?	weak application	Yes the user can explore the data but there's a scope of adding few clear button's for navigation in place of slide bar.	
It is clear to the user where they need to start interacting with the dashboard.		strong application	The dashboard has an general monitoring sense and is divided in slides of story line so user can navigate through it easily. The first slide itself is the story line.	
The charts in the dashboard support tasks that represent the overall intended goal to the user.		weak application	The goal will be different for different user, though this dashboard is mainly made for the decision makers. Can be generalised	
There is a clear reading order within the dashboard and is it logical (e.g., top-down, bottom-up).		weak application	The reading order in the main slide dashbaord is not that defined and will be hard for a person from non domain part to read.	
The text in the dashboard is legible, easy to read, and useful. The different parts of the chart (e.g. titles, captions, or narration) are well-described.		weak application	Yes it is readable	
The charts in the dashboard clearly identify, compare, or summarize a particular aspect of the data.		weak application	we feel better work can be done on the Suggestions to state side with respect to the asthetics.	
The layout, placement of charts, and the flow in the visualization should be easy to follow.		weak application	The main dashboard had become a bit clumsy, hence it was then segregated in story/ slide pages..	
The visual systems in place (e.g., a consistent font and color brand) provide guidance in understanding the analysis.		strong application	yes the visual system is ok if we consider the fact that black theme is getting utilised for it.	

Criteria	Follow-up question	Rating	Comment	Image
There is a clear and consistent visual style for elements such as titles, axes, and colors.		strong application	Yes, all the elements have same title and axis colours.	
The conventions used in the dashboard such as icons are easy to understand for the user.		strong application	Conventions used were easy to understand and multiple such elements were used.	
There are consistent rules for the formatting of elements such as gridlines, borders, and supporting ink elements.		strong application	There is consistency and uniformity in formatting rule, same theme has been used throughout the story line	
The dashboard should disclose any biases. These can include the author's personal biases, design biases, and/or biases in the data.		strong application	The text used in various charts describes the data and conveys the message that data wants to convey.	
The dashboard should communicate where the data came from, and what steps were taken to prepare the data.		strong application	The data generation and preparation has been communicated to users in detail in supporting file pptx	
Charts within the dashboard are at the appropriate level of detail to convey the intended message.	If not, what can be done to change the dashboard to an appropriate level of detail?	strong application	Multiple charts looking at data from various perspectives have been added which try to detail the patterns in data	
There is a clear presentation of context, theme, and detail as part of the analytical exploration with the dashboard.		strong application	The presentation ensures that the message is conveyed clearly and in a simple manner.	
The dashboard employs visual symbols and iconography to add meaning to the data being presented or help support the intended message.	If no, are there opportunities to do so?	strong application	The dashboard emoploys visual symbols and iconography to enable author to reduce text while presenting message in clear way	
If there are icons and symbols in the dashboard, the semantics of their placement and appearance are helpful to communicate patterns in the data. (e.g., changing a plane icon's location and direction for arrival vs. departure)		weak application	The icons used are there to support the charts and do not provide much capabilities to the chart	
The iconography supports or potentially replaces repetitive text directives.	If not, are there opportunities to do so?	strong application	The iconography has reduced the need for repetitive text content.	
Concepts or metrics (e.g., date formats , time, currency, measurement) are either easily understandable or clearly defined in the dashboard.		strong violation	Most of the metrics are absent which makes it bit vague and hard to interpret numbers	

There is sufficient contextual information that describes what the dashboard is about.		strong application	All the target parameters are concisely covered with attention to every detail possible	
The charts within the dashboard make sense as an overall composition to help situate or contextualize the user.		strong application	Yes it does help	
The text in the dashboard should emphasize the most salient points of what the visuals in the dashboard convey.		strong application	Unit of Measurement shall be incorporated	
The dashboard communicates a certain style or mood to the user.		strong application	It is supporting the underlying theme supporting the Company's name: BLACKOUT ELECTRICAL COMPANY	
The dashboard is interactive and supports the user in completing a new analytical task or starting a new line of inquiry.	Are there interactions that could be added or improved to enhance the experience?	weak violation	New line of enquirey cannot be directly started as the flexibility is bit poor.	
Tasks in the dashboard should be achieved with minimal friction.	Is anything difficult to understand or interact with in the dashboard?	strong application	Dynamically changing views will also suggest the actons/decisions	
When a user interacts with the dashboard, the dashboard should guide the user with their next step.		weak application	Buttons can be provided which direct the user to correct path.	
The dashboard should update its view based on what is selected, highlighted or filtered by the user.		strong application	Yes it does very effectively	
There are text and visual elements to frame or guide salient information.		strong application		
There is a clear path and breadcrumbs for user actions within the dashboard.		strong application		
There are clear strategies employed in the dashboard to mark charts or marks more prominently than others to encourage a user to interact with them, as well as de-emphasize items not relevant to the conversation.		strong application	Strong Application: Charts are present with proper legends.	
Functional dead end: The dashboard should not freeze, crash, display errors, or otherwise unexpectedly interrupt the user.		strong application	Strong Application: No functional dead end, all functionality is working properly.	
Navigational dead end: The dashboard support interactivity (e.g., filters, search) to help a user navigate between different snapshots of the data being presented.	Are there places where a user could get stuck in this process?	strong application	Strong Application: All filters are working properly & data is getting the proper data on chartboard.	
The dashboard should support input modalities (e.g., natural language interaction, filter widgets, and / or clicks) to answer any analytical question or task.		strong application	Strong Application: filter, widgets can be used as filter in the dashboard & it change the other charts also as per selected filter.	Please refer above dashboard.
The user can set or adjust their own definition of concepts or metrics, or otherwise include their own knowledge into the dashboard. (e.g., if a user is interested only in "tall" people, can they set their own definition of "tall")		strong application	Strong Violation: No manual concpets can be incorporated in the made dashboard	Please refer above dashboard.
There should be a clear takeaway from the dashboard.		strong application	Strong Application: Each story is communicating the proper story which is essentially communicated through proper visualization & encodings	Please refer above dashboard.
The dashboard should not contain any information that distracts from the key takeaway.	If not, what could be done to make the takeaway clearer?	strong application	Strong Application: As dashboard is having minimum figures so it is easy visualize & not clutter in the stories.	Please refer above dashboard.
The conclusions match what the charts in the dashboard show.		strong application	Strong Application: Yeah dashboard is able to share the same conclusion through all story together.	Please refer above dashboard.

There is adequate evidence that the dashboard is truthful. The dashboard should be able to convince the key takeaway through credibility and trustworthiness (e.g. ethos appeal).		strong application	Strong Application: As this dashboard is meant for the retail electricity supply and able to compile , most of the data which is required for their decision making.	Please refer above dashboard.