

```
import moment from "moment";
import IntlMessage from "components/util-components/IntlMessage";
import { isEmpty } from "lodash";
import { Grid } from "antd";
import {
    FilePptTwoTone,
    FileWordOutlined,
    FileZipOutlined,
    FileImageOutlined,
    FileExcelTwoTone,
    FileOutlined,
} from "@ant-design/icons";
class Utils {
    static GetFileIcon(extension) {
        switch (extension) {
            case "xlsx":
            case "xls":
                return <FileExcelTwoTone style={{ fontSize: "24px" }} />;
            case "doc":
            case "docx":
                return <FileWordOutlined style={{ fontSize: "24px" }} />;
            case "zip":
            case "rar":
            case "tar":
                return <FileZipOutlined style={{ fontSize: "24px" }} />;
            case "pdf":
                return <FilePptTwoTone style={{ fontSize: "24px" }} />;
            case "png":
            case "jpg":
            case "gif":
            case "bmp":
                return <FileImageOutlined style={{ fontSize: "24px" }} />;
            default:
                return <FileOutlined style={{ fontSize: "24px" }} />;
        }
    }
}
/**
 * Get first character from first & last sentences of a username
 * @param {String} name - Username
 * @return {String} 2 characters string
 */

static removeVietnameseTones(str) {
    str = str.replace(/à|á|ạ|ả|ã|â|ầ|ấ|ă|ằ|ặ|ă|ắ|ă|ẳ|ă|ẵ/g, "a");
    str = str.replace(/è|é|ẹ|ẻ|ê|ề|ế|ê|ể|ẽ/g, "e");
    str = str.replace(/ì|í|ị|ỉ|ĩ/g, "i");
    str = str.replace(/ò|ó|ọ|ỏ|ô|ồ|ố|ơ|ồ|ổ|ơ|ở|ỡ/g, "o");
    str = str.replace(/ù|ú|ụ|ủ|ư|ừ|ứ|ử|ữ/g, "u");
    str = str.replace(/ỳ|ý|ỵ|ỹ/g, "y");
    str = str.replace(/đ/g, "d");
    str = str.replace(/À|Á|Ạ|Ả|Ã|Â|Ầ|Ấ|Ă|Ằ|Ặ|Ă|Ắ|Ă|Ẳ|Ă|Ẵ/g, "A");
    str = str.replace(/È|É|Ẹ|Ẻ|Ê|Ề|Ế|Ê|Ể|Ễ/g, "E");
    str = str.replace(/Ì|Í|Ị|Ỉ|Ĩ/g, "I");
    str = str.replace(/Ò|Ó|Ọ|Ỏ|Ô|Ồ|Ố|Ơ|Ồ|Ổ|Ơ|Ở|Ỡ/g, "O");
    str = str.replace(/Ù|Ú|Ụ|Ủ|Ư|Ừ|Ứ|Ử|Ữ/g, "U");
    str = str.replace(/Ỳ|Ý|Ỵ|Ỹ/g, "Y");
    str = str.replace(/Đ/g, "D");
    // Some system encode vietnamese combining accent as individual utf-8 characters
    // Một vài bộ encode coi các dấu mũ, dấu chữ như một kí tự riêng biệt nên thêm hai dòng này
    str = str.replace(/\u0300|\u0301|\u0303|\u0309|\u0323/g, ""); // ``~` . huyền, sắc, ngã, hỏi, nặng
    str = str.replace(/\u02C6|\u0306|\u031B/g, ""); // ^ ~ ` Â, Ê, Ă, Ơ, Ư
    // Remove extra spaces
    // Bỏ các khoảng trắng liền nhau
    str = str.replace(/ + /g, " ");
    str = str.trim();
    // Remove punctuations
    // Bỏ dấu câu, kí tự đặc biệt
    str = str.replace(
        // eslint-disable-next-line no-useless-escape
        /!|"|%|^|\*|\(|\)|\\+|=|<|>|?|\/|,|\\.|\.|:|\\'|\"|&|#|\\[\\]|~|\\$|_|_|-|{|}|\\\\\\|\\/,
        ""
    );
}
```

```

    );
    return str;
}

static getNameInitial(name) {
    let initials = name.match(/\b\w/g) || [];
    return ((initials.shift() || "") + (initials.pop() || "")).toUpperCase();
}

/**
 * Get current path related object from Navigation Tree
 * @param {Array} navTree - Navigation Tree from directory 'configs/NavigationConfig'
 * @param {String} path - Location path you looking for e.g '/app/dashboards/analytic'
 * @return {Object} object that contained the path string
 */
static getRouteInfo(navTree, path) {
    if (navTree.path === path) {
        return navTree;
    }
    let route;
    for (let p in navTree) {
        if (navTree.hasOwnProperty(p) && typeof navTree[p] === "object") {
            route = this.getRouteInfo(navTree[p], path);
            if (route) {
                return route;
            }
        }
    }
    return route;
}

/**
 * Get accessible color contrast
 * @param {String} hex - Hex color code e.g '#3e82f7'
 * @return {String} 'dark' or 'light'
 */
static getColorContrast(hex) {
    if (!hex) {
        return "dark";
    }
    const threshold = 130;
    const hRed = hexToR(hex);
    const hGreen = hexToG(hex);
    const hBlue = hexToB(hex);
    function hexToR(h) {
        return parseInt(cutHex(h).substring(0, 2), 16);
    }
    function hexToG(h) {
        return parseInt(cutHex(h).substring(2, 4), 16);
    }
    function hexToB(h) {
        return parseInt(cutHex(h).substring(4, 6), 16);
    }
    function cutHex(h) {
        return h.charAt(0) === "#" ? h.substring(1, 7) : h;
    }
    const cBrightness = (hRed * 299 + hGreen * 587 + hBlue * 114) / 1000;
    if (cBrightness > threshold) {
        return "dark";
    } else {
        return "light";
    }
}

/**
 * Darken or lighten a hex color
 * @param {String} color - Hex color code e.g '#3e82f7'
 * @param {Number} percent - Percentage -100 to 100, positive for lighten, negative for darken
 * @return {String} Darken or lighten color
 */
static shadeColor(color, percent) {
    let R = parseInt(color.substring(1, 3), 16);
    let G = parseInt(color.substring(3, 5), 16);
    let B = parseInt(color.substring(5, 7), 16);

```

```

R = parseInt((R * (100 + percent)) / 100);
G = parseInt((G * (100 + percent)) / 100);
B = parseInt((B * (100 + percent)) / 100);
R = R < 255 ? R : 255;
G = G < 255 ? G : 255;
B = B < 255 ? B : 255;
const RR =
  R.toString(16).length === 1 ? `0${R.toString(16)}` : R.toString(16);
const GG =
  G.toString(16).length === 1 ? `0${G.toString(16)}` : G.toString(16);
const BB =
  B.toString(16).length === 1 ? `0${B.toString(16)}` : B.toString(16);
return `#${RR}${GG}${BB}`;
}

/**
 * Convert RGBA to HEX
 * @param {String} rgba - RGBA color code e.g 'rgba(197, 200, 198, .2)''
 * @return {String} HEX color
 */
static rgbaToHex(rgba) {
  const trim = (str) => str.replace(/^s+|\s+$/gm, "");
  const inParts = rgba.substring(rgba.indexOf("(").split(","),
    r = parseInt(trim(inParts[0].substring(1)), 10),
    g = parseInt(trim(inParts[1]), 10),
    b = parseInt(trim(inParts[2]), 10),
    a = parseFloat(
      trim(inParts[3].substring(0, inParts[3].length - 1))
    ).toFixed(2);
  const outParts = [
    r.toString(16),
    g.toString(16),
    b.toString(16),
    Math.round(a * 255)
      .toString(16)
      .substring(0, 2),
  ];

  outParts.forEach(function (part, i) {
    if (part.length === 1) {
      outParts[i] = "0" + part;
    }
  });
  return `#${outParts.join("")}`;
}

/**
 * Returns either a positive or negative
 * @param {Number} number - number value
 * @param {any} positive - value that return when positive
 * @param {any} negative - value that return when negative
 * @return {any} positive or negative value based on param
 */
static getSignNum(number, positive, negative) {
  if (number > 0) {
    return positive;
  }
  if (number < 0) {
    return negative;
  }
  return null;
}

/**
 * Returns either ascending or descending value
 * @param {Object} a - antd Table sorter param a
 * @param {Object} b - antd Table sorter param b
 * @param {String} key - object key for compare
 * @return {any} a value minus b value
 */
static antdTableSorter(a, b, key) {
  if (typeof a[key] === "number" && typeof b[key] === "number") {
    return a[key] - b[key];
  }
}

```

```

    if (typeof a[key] === "string" && typeof b[key] === "string") {
        a = a[key].toLowerCase();
        b = b[key].toLowerCase();
        return a > b ? -1 : b > a ? 1 : 0;
    }
    return;
}

/**
 * Filter array of object
 * @param {Array} list - array of objects that need to filter
 * @param {String} key - object key target
 * @param {any} value - value that excluded from filter
 * @return {Array} a value minus b value
 */
static filterArray(list, key, value) {
    let data = list;
    if (list) {
        data = list.filter((item) => item[key] !== value);
    }
    return data;
}

/**
 * Remove object from array by value
 * @param {Array} list - array of objects
 * @param {String} key - object key target
 * @param {any} value - target value
 * @return {Array} Array that removed target object
 */
static deleteArrayRow(list, key) {
    let data = list;
    if (list) {
        data = list.filter((_, index) => index !== key);
    }
    return data;
}

static setLocale = (localeKey, isLocaleOn = true) =>
    isLocaleOn ? <IntlMessage id={localeKey} /> : localeKey.toString();

static setLanguage = (textVi, textEn, locale) => {
    return locale === "vi" ? textVi : textEn;
};

/**
 * Wild card search on all property of the object
 * @param {Number | String} input - any value to search
 * @param {Array} list - array for search
 * @return {Array} array of object contained keyword
 */
static wildCardSearch(list, input) {
    const searchText = (item) => {
        for (let key in item) {
            if (item[key] == null) {
                continue;
            }
            if (
                item[key]
                    .toString()
                    .toUpperCase()
                    .indexOf(input.toString().toUpperCase()) !== -1
            ) {
                return true;
            }
        }
    };
    list = list.filter((value) => searchText(value));
    return list;
}

/**
 * Get Breakpoint
 * @param {Object} screens - Grid.useBreakpoint() from antd
 * @return {Array} array of breakpoint size

```

```

*/
static getBreakPoint(screens) {
  let breakpoints = [];
  for (const key in screens) {
    if (screens.hasOwnProperty(key)) {
      const element = screens[key];
      if (element) {
        breakpoints.push(key);
      }
    }
  }
  return breakpoints;
}

static formatDate = (dateStr, isDate = false, ignoreDay = false) => {
  const date = moment(dateStr);
  const dateFormatted = isDate
    ? date.format("DD/MM/YYYY")
    : date.format("DD/MM/YYYY HH:mm");

  if (ignoreDay) {
    return isDate ? date.format("MM/YYYY") : date.format("MM/YYYY HH:mm");
  }

  return dateFormatted;
};

static formatTime = (dateStr) => {
  const date = moment(dateStr);
  const dateFormatted = date.format("HH:mm");
  const sliceIndex = 5;
  return dateFormatted.slice(0, sliceIndex) + dateFormatted.slice(sliceIndex);
};

static validatePhoneNumberVN() {
  return {
    validator(_, value) {
      if (isEmpty(value)) return Promise.resolve();
      if (/((^\+84|84|0084|0){1})(2|3|5|7|8|9))+([0-9]{8})$/).test(value)) {
        return Promise.resolve();
      }
      return Promise.reject(
        new Error("Số điện thoại bắt đầu bằng +84, 84, 0xx")
      );
    },
  };
}

static getNameLetter = (name) => {
  if (!name) return "";
  let str = "";
  name.split(" ").map((i) => (str += i.charAt(0)));
  return str.toUpperCase();
};

static checkPermitValue = (crrValue = 0, permitList = [], key) => {
  let isPermit = false;
  if (!permitList) return isPermit;
  const permitOld = permitList.find((i) => i.permit === key);
  if (isEmpty(permitList) || isEmpty(permitOld)) isPermit = false;
  else {
    isPermit = (permitOld.actions & crrValue) !== 0;
  }
  return isPermit;
};

static CheckNumByPermit = (dataList = [], key) => {
  const data = dataList.find((i) => i.key === key);
  return data?.baget || 0;
};

static layoutMobile = (layout = "lg") => {
  const { useBreakpoint } = Grid;
  const screens = this.getBreakPoint(useBreakpoint());
  return screens.length === 0 ? false : !screens.includes(layout);
};

// type: number/money
static formatterNumber(val, type = "number") {

```

```

    if (!val) return;
    let formater = new Intl.NumberFormat("vi-VN", {
      maximumFractionDigits: 5,
    });
    if (type === "money") {
      formater = new Intl.NumberFormat("vi-VN", {
        style: "currency",
        currency: "VND",
      });
    }
    return formater.format(val);
  }
  static parserNumber = (val) => {
    if (!val) return 0;
    return Number.parseFloat(
      // eslint-disable-next-line no-useless-escape
      val.replace(/\$|s?|(\.+)/g, "").replace(/(\,|{1})/g, ".")
    ).toFixed(5);
  };
  static queryToObject(queryString) {
    return Object.fromEntries(new URLSearchParams(queryString));
  }
  //reset hour filter to zero
  static resetTimeToStartOfDay = (date) => {
    if (!date) return null;
    const newDate = new Date(date);
    newDate.setHours(0, 0, 0, 0);
    return newDate;
  };

  static setTimeToEndOfDay = (date) => {
    if (!date) return null;
    const newDate = new Date(date);
    newDate.setHours(23, 59, 59, 999);
    return newDate;
  };
}

export default Utils;

```