BAB V

KESIMPULAN DAN SARAN

5.1 Kesimpulan

Pemanfaatan aplikasi chat messenger seperti Telegram dapat membantu meningkatkan proses pelayanan digital printing. Dalam penelitian ini dijelaskan bahwa Telegram memiliki beberapa keuntungan seperti keamanan, kecepatan, dan kemudahan penggunaan. Selain itu, chatbots dapat membantu dalam perdagangan digital printing dengan memberikan informasi produk, menerima pesanan, dan memproses pesanan. Namun, peneletian ini juga menekankan bahwa penggunaan Telegram dan chatbots bukanlah solusi akhir, tetapi langkah pertama untuk berkontribusi dalam pengembangan solusi yang lebih baik di masa mendatang.

5.2 Saran

Pemilik bisnis digital printing mempertimbangkan untuk menggunakan Telegram dan chatbots dalam proses pelayanan mereka. Selain itu, PDF ini juga merekomendasikan agar pemilik bisnis tetap memperhatikan keadaanbisnis yang sedang berjalan dan terus mengembangkan solusi yang lebih baik di masa mendatang.

DAFTAR PUSTAKA

Kurniawan, F., Umayah, B., Hammad, J., Mardi, S., Nugroho, S., & Hariadi, M. 2018. Market Basket Analysis to Identify Customer Behaviors by Way of Transaction Data. Knowledge Engineering and Data Science, 1(1), 20-25.

Laudon, K. C., & Traver, C. G. 2019. E-Commerce 2019: Business, Technology, and Society. Pearson.

Lin, H. K., Hsieh, C. H., Wei, N. C., & Peng, Y. C. 2019. Association Rules Mining in R for Product Performance Management in Industry 4.0. Procedia CIRP, 83, 699-704.

Mahatmyo, A. 2014. Accounting Information Systems: An Introduction. Yogyakarta: Deepublish.

Maske, A., & Joglekar, B. 2018. Survey on Frequent Item-Set Mining Approaches in Market Basket Analysis. 2018 Fourth International Conference on Computing Communication Control and Automation (ICCUBEA).

Muhammad Arhami, S.S.M.K., & Muhammad Nasir, S.T.M.T. 2020. Data Mining - Algorithms and Implementation. Penerbit Andi.

Mustajibah, T., & Trilaksana, A. 2021. The Dynamics of E-Commerce in Indonesia in 1999-2015. Journal of History Education, 10(3).

OXFORD ENGLISH DICTIONARIES. n.d. Data. Accessed November 11, 2022.

Putra, T. N., Syafrinal, I., & Yesputra, R. 2022. DATA MINING USING RAPIDMINER APPLICATIONS. Insan Cendekia Mandiri.

Rodin, R. 2021. Information in Socio-Cultural Context. Edited by Shara Nurachma. PT. RajaGrafindo Persada.

Rusdiana, A., & Moch Irfan. 2014. Management Information Systems. Bandung.

Salamah, U. G. 2021. Cascading Style Sheets (CSS) Tutorial. Media Sains Indonesia.

Setiani, D. I., Nasafi, F., Mauritsius, T., Kaburuan, E. R., & Jayadi, R. 2021. Data Mining Implementation with Association Method and Apriori Algorithm for Store Display Design in Home Center Indonesia. ICIC Express Letters, 15(11), 1221-1226.

Setiawan, A., & Mulyanti, R. 2020. Market Basket Analysis with Apriori Algorithm in Trendy Muslim Clothing Stores E-commerce. JUITA: Jurnal Informatika, 8(1), 11-18.

Setiawan, D. 2017. The Mighty Book of Web Programming: HTML, CSS, PHP, MySQL & Javascript. Anak Hebat Indonesia.

Sholihin, N. M. A. 2022. Building Websites with Laravel 8 Framework. Pascal Books.

Sholik, M., & Salam, A. 2018. Implementation of Apriori Algorithm to Find Items Association That Sold at OrderMas E-Commerce. Jurnal Teknologi Informasi, 17(2), 158-170.

SmitDev, Z. A. R. 2015. Bootstrap Design Framework. Elex Media Komputindo.

Sulaeman, Y. S. 2019. Anyone Can Become a Laravel Basic Programmer. Elex Media Komputindo.

Sulasmoro, A. H. 2022. Book of Algorithms and Programming I. Penerbit P4I.

Suntoro, J. 2019. Data Mining: Algorithms and Implementation with PHP Programming. PT Gramedia.

Ünvan, Y. A. 2021. Market Basket Analysis with Association Rules. Communications in Statistics - Theory and Methods, 50(7), 1615-1628.

Zhou, G. 2022. Data Mining for Co-Location Patterns; Principles and Applications. 1st ed. Boca Raton: Taylor and Francis Group.

Abdulloh, R. 2018. 7 in 1 Advanced Web Programming. Elex Media Komputindo.

Adam Saputra, S. S. 2019. The Mighty Book of HTML, CSS & Javascript: Web

Programming Made Easy. Anak Hebat Indonesia.

Aguinis, H., Forcum, L. E., & Joo, H. 2013. Using Market Basket Analysis in

Management Research. Journal of Management, 39(7), 1799–1824.

Akbar, M. A., Alam, S. N., Hutahaean, J., & Simarmata, J. 2020. E-COMMERCE: Basic

Theory in Digital Business. Yayasan Kita Menulis.

Apridonal, M., Choiriah, W., & Akmal, A. 2019. Application of Data Mining Using

Association Rule Method with Apriori Algorithm for Analysis of Sales Patterns.

JURTEKSI (Journal of Technology and Information Systems), 5(2), 193-198.

Bakri, R., Halim, A., & Probondani, N. 2018. Marketing Strategy Information System

with Market Basket Analysis and Sales Forecasting Method: Supermarket in Makassar

City. Journal of Management Theory and Applied, 11(2).

Bank Indonesia. 2021. Rise and Optimism: Synergy and Innovation for Economic

Recovery. November 24, 2021.

Dalle, J., Akrim, A., & Baharuddin. 2020. Introduction to Information Technology.

Depok.

Dr. Muhammad Yusuf, & D. M. Nastiti. 2019. Research Data Analysis: Theory &

Application in Fisheries. PT Penerbit IPB Press.

Duldulao, D. B. 2021. ASP.NET Core and Vue.Js: Build Real-World, Scalable, Full-Stack

Applications Using Vue.Js 3, TypeScript, .NET 5, and Azure. Packt Publishing.

Enterprise, J. 2016. Bootstrap Programming for Beginners. Elex Media Komputindo.

xiv

Fathoroni, A., Fatonah, N. S. R., Andarsyah, R., & Riza, N. 2020. TUTORIAL BOOK: Decision Support System for Faculty Performance Assessment Using the 360 Degree Feedback Method. CV. Kreatif Industri Nusantara.

Fatoni, C. S., Utami, E., & Wibowo, F. W. 2018. Online Store Product Recommendation System Uses Apriori Method. Journal of Physics: Conference Series, 1140.

Huber, S., Wiemer, H., Schneider, D., & Ihlenfeldt, S. 2019. DMME: Data Mining Methodology for Engineering Applications - a Holistic Extension to the CRISP-DM Model. Procedia CIRP, 79, 403-408.

Isa, I. G. T., Elfaladonna, F., & Ariyanti, I. 2022. Textbook for Decision Support Systems. Penerbit NEM.

Jollyta, D., Siddik, M., Mawengkang, H., & Efendi, S. 2021. Cluster Solution Evaluation Technique using Python and Rapidminer. Deepublish.

JOSEPH, P.T.S.J. 2019. E-COMMERCE: AN INDIAN PERSPECTIVE, Sixth Edition. PHI Learning Pvt. Ltd.

Kiran, R. U., Fournier-Viger, P., Luna, J. M., Lin, J. C. W., & Mondal, A. 2021. Periodic Pattern Mining: Theory, Algorithms, and Applications. Springer Nature Singapore.

Kurnia, Y., Isharianto, Y., Giap, Y. C., Hermawan, A., & Riki. 2019. Study of Application of Data Mining Market Basket Analysis for Knowing Sales Pattern at the O! Fish Restaurant Using Apriori Algorithm. Journal of Physics: Conference Series, 1175.

LAMPIRAN CODING

```javascript
var token = "6203236896:AAGDcmVCZ1RVDzSytjRQQeZbRcXaXERegII";var url =
"https://api.telegram.org/bot" + token;
var webAppUrl =
"https://script.google.com/macros/s/AKfycbyWx4vXgfXSfMiYNozia6mckJdt1tfLo35R-
FPY1OFjPZg2CPAd7p_RgdtFCTDshOTn/exec";

function setWebhook() {
  var response = UrlFetchApp.fetch(url + "/setWebhook?url=" + webAppUrl);
  Logger.log(response.getContentText());
}

function doPost(e) {
  var stringJson = e.postData.getDataAsString();var updates
  = JSON.parse(stringJson);

  var id = updates.message.from.id;
  var nama = updates.message.from.first_name; var msg =
  updates.message.text.toLowerCase();

  var text = "";var text2 =
  "";

  if (msg.substring(0, 7) == "masukan" || msg.substring(0, 4) == "nama" ||
msg.substring(0, 6) == "contoh") {
  var jams = String(msg.split("jam :")[1]).replace("\n", "").replace(" ", ""); if
(jams.substring(3, 2) != ":") {
  text = "Mohon ulangi penulisan format jam seperti contoh pengisian, format jam 00:00
sampai 23.59";
  }
  else
  {
  if (jams < '07:00' || jams > '22:00') {
  text = "Pemesanan anda belum berhasil karena telah melewati jam operasional kami,
Pemesanan bisa dilakukan di jam 07:00 pagi hingga 22:00 malam";
  }
  else
  {
  var tgls = String(msg.split("tanggal kedatangan :")[1]).split("jam
  :")[0]).replace("\n", "").replace(" ", "");
  var frmtDt = tgls.split("/")[1] + "/" + tgls.split("/")[0] + "/" +
tgls.split("/")[2];
  var date = new Date(frmtDt); if (isNaN(date.getDate())) {
  text = "Pemesanan anda belum berhasil karena format tanggal salah, Mohon lihat contoh
format pengisian";
```

```
    }
    else
    {
    var dates = new Date(); var ids_o =
    String(dates.getFullYear())+String(dates.getMonth())+String(dates.getDay())+Strin
g(dates.getHours())+String(dates.getMinutes())+String(dates.getSeconds());
    var nama_o = String(msg.split("nama customer :")[1].split("\n")[0]); var jasa_o =
String(msg.split("jasa yang dipilih
    :")[1].split("\n")[0]);
    var tanggal_o = String(msg.split("tanggal kedatangan
    :")[1].split("\n")[0]);
    var jam_o = String(msg.split("jam :")[1].split("\n")[0]);
    text = 'Pendaftaran Berhasil dengan ID Order : '+ids_o+" dengan data
    \n\n Nama : "+nama_o+"\nJasa : "+ jasa_o+"\nTanggal : "+tanggal_o+"\nJam :
"+jam_o+"\n\nDimohon untuk datang pada waktu dan jam yang ditentukan, untuk menghindari
pembatalan booking";
    //var txtNama = nama_o.replace("\n", " ");
    //var txtPada = pada_0.replace("\n", " ");
    UrlFetchApp.fetch('https://stevprints.org/saveData.php?id='+ids_o+'&use
r='+id+'&nama='+nama_o+'&jasa='+jasa_o+'&tanggal='+tanggal_o+'&jam='+jam_o);
    }
    }
    }
    } else {
    if (msg.includes("harga") || msg.includes("design") || msg.includes("list")
    || msg.includes("biaya")) {
    //text = "List/Daftar Harga Stevprints\n\nDesign Basic : Rp 100.000\nDesign Premium :
Rp 150.000";
    sendPhoto(id, "List Harga");
    }
    else
    {
    if (msg.includes("operasi") || msg.includes("buka") || msg.includes("tutup") ||
msg.includes("jadwal")) {
    text = "Stevprint buka mulai dari 07:00 pagi sampai dengan 22:00 malam ";
    }
    else
    {
    if (msg.includes("Thanks") || msg.includes("Thx") || msg.includes("makasih") ||
msg.includes("thanks") || msg.includes("terimakasih")
    || msg.includes("Terimakasih") || msg.includes("thx")) { text = "Have a nice day, may
you always be happy";
    }
    else
    {
    if (msg.includes("pesan") || msg.includes("book") || msg.includes("order") ||
msg.includes("Pesan") || msg.includes("Booking") || msg.includes("req")) {
    text = "Mohon ketik data Anda, bisa copy text dibawah ini\n\nNama Customer : \nJasa
yang dipilih : \nTanggal Kedatangan : \nJam : ";
```

```
  text2 = "Contoh Format Pengisian\nNama Customer : Andrew\nJasa yang dipilih : Design
Basic\nTanggal Kedatangan : 26/04/2023\nJam : 18:00";
  sendText2(id, text2);
  }
  else
  {
  if (msg.includes("selamat") || msg.includes("slamat") || msg.includes("siang") ||
msg.includes("pagi") || msg.includes("malem") || msg.includes("sore") ||
msg.includes("malam") || msg.includes("hai") || msg.includes("halo")) {
  text = "Selamat Datang di stevprints\nMohon ketik kebutuhan

  andassss";


  }
  else
  {

  text = "Mohon Maaf kami tidak mengerti keinginan anda, Boleh diketikan kebutuhan yang
lain";
  }
  }
  }
  }
  }
  }

  sendText(id, text);
  }

  // if (msg.substring(0, 7) == "masukan" || msg.substring(0, 4) == "nama" ||
msg.substring(0, 6) == "contoh") {
  //   var jams = String(msg.split("jam :")[1]).replace("\n", "").replace(" ", "");
  //   if (jams.substring(3, 2) != ":") {
  //   text = "Mohon ulangi penulisan format jam seperti contoh pengisian, format jam
00:00 sampai 23.59";
  //   } else {
  //   if (jams < '07:00' || jams > '22:00') {
  //   text = "Pemesanan anda belum berhasil karena telah melewati jam operasional kami,
Pemesanan bisa dilakukan di jam 07:00 pagi hingga 22:00 malam";
  //   } else {
  //   var tgls = String(msg.split("tanggal datang :")[1]).split("jam
  :")[0].replace("\n", "").replace(" ", "");
  //   var frmtDt = tgls.split("/")[1] + "/" + tgls.split("/")[0] + "/" +
tgls.split("/")[2];
  //   var date = new Date(frmtDt);
  //   if (isNaN(date.getDate())) {
  //   text = "Pemesanan anda belum berhasil karena format tanggal salah, Mohon lihat
contoh format pengisian";
```

```
//   } else {
//   var nama_o = String(msg.split("nama :")[1].split("plat nomor :")[0]);
//   var pada_0 = String(msg.split("tanggal datang :")[1]);
//   text = 'Terimakasih, ' + nama_o + ' Sudah Melakukan Pemesanan Online, Silahkan
Datang Pada' + pada_0 + ', dengan menunjukan Pesan Ini';
//   var txtNama = nama_o.replace("\n", " ");
//   var txtPada = pada_0.replace("\n", " ");
//   UrlFetchApp.fetch(' ' + id + '&txt=' + txtNama + " pada " + txtPada);
//   }
//   }
//   }
// }
```